



EUREKA

Capital Improvement Program 2016

February 2016

Fiscal Years
2016/17-2020/21



Martin Slough Interceptor



Mad River Pipeline



Hilfiker Lift Station

**CITY OF EUREKA
CAPITAL IMPROVEMENT
PROGRAM 2016**

MAYOR
Frank Jäger

CITY COUNCIL
Linda Atkins
Marian Brady
Melinda Ciarabellini
Kim Bergel
Natalie Arroyo

CITY MANAGER
Greg L. Sparks

DIRECTOR OF PUBLIC WORKS
Brian Gerving

DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING
Jesse Willor, P.E.

February 2016

CITY OF EUREKA CAPITAL IMPROVEMENT PROGRAM 2016

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INTRODUCTION

As one of the earliest cities in California, Eureka must continually work to maintain and replace its aging facilities to meet its goal of providing high quality service to the City's citizens. In addition to maintenance, the City invests in new infrastructure improvements that extend and enhance service and provide for a diverse economic base within the community.

The City's Capital Improvement Program 2016 (CIP 2016) is a five-year summary of ongoing and proposed capital improvements to the City's public facility and infrastructure assets. CIP 2016 covers the period from Fiscal Year 2016/17 to Fiscal Year 2020/21. The FY 2016/17 budget is not in place and the capital programming presented in CIP 2016 will be a guiding tool to help set the budget. Subsequent years beyond 2016/17 in CIP 2016 include anticipated projects and capital expenditures that are likely to occur and/or are believed to be needed to maintain acceptable service to the citizens of Eureka.

What is a Capital Improvement Program? A Capital Improvement Program (CIP) is a multi-year planning instrument used to identify and present needed capital improvement projects and to coordinate the financing and timing of those improvements. The primary purpose of the CIP is to assist in the orderly implementation of the broad and comprehensive goals of the adopted General Plan and for the maintenance and replacement of the City's infrastructure by establishing an orderly basis to guide local officials in making sound budget decisions, focusing attention on community goals, needs and capabilities to maximize the benefit of public expenditures.

What makes a Capital Improvement Program Effective? An effective CIP does the following:

1. Identifies specific public improvement projects and activities by location, size, function, and cost.
2. Establishes the timing for funding of major cost elements related to each project, such as permitting, right-of-way acquisition, design, construction and inspection.
3. Proposes specific revenue source(s) for each project and activity.
4. Facilitates prioritizing when funds are insufficient to cover all desired projects.
5. Enhances coordination of separate but interrelated projects, whether internal or involving other agencies.
6. Provides affected agencies, such as utility companies, an opportunity to develop long-range programming in concert with City projects.
7. Lowers the risk of inefficient, frequent (annual) changes of direction in allocation of capital resources.
8. Provides a realistic base for labor and financial resources needed to implement the Program.

Planning Period—The 5-year planning period, commonly used for CIP projections of City capital needs, allows a more comprehensive, far-sighted approach to setting goals balanced between need and resources. A 5-year CIP must be flexible enough to make the inevitable adjustments for unanticipated cost changes, urgent projects, or other factors. City officials can refer to the CIP to help identify and inform the consequences of a delay in timely project commencement due to such factors. CIP updates are prepared and adopted each year to address the changes that have occurred over the previous year.

Capital Improvement Funding—Funding for projects is derived from special source funds including gas tax, harbor, water and sewer enterprises, parking fees, remaining balances of the General Fund, bond sales and state, federal and other grants. Gas tax, harbor, water and sewer fund and parking fee revenues are budgeted only for capital projects in the categories appropriate to their sources. Federal, state and other grant funds may only be used for the purpose for which the funds were received.

General Fund—General Fund revenue has been used to fund capital improvements but the level of capital funding available from that source has steadily decreased over time. The majority of General Fund revenue is used for operations. Consequently, The General Fund currently does not have the ability to finance substantial capital improvement projects. On the positive side, supplemental sales tax measures approved by City voters in 2010 and again in 2014 provide critically-needed funds for public safety, and a portion of that revenue has historically been earmarked for capital improvements

Bond Funding—The sale of bonds is an effective means of financing capital improvements and will continue to be an option in the future. General Obligation bonds have been used to fund both the Martin Slough Interceptor Project and the Mad River Pipeline Project. In these cases, the debt related to bond payback is provided by the wastewater and water enterprise funds, respectively.

Enterprise Funds—One of the programs in CIP 2016 is an updated look at water and wastewater rates, which will consider the need for capital reserve funding that can be used for “pay-as-you-go” projects and to service bond debt as a means to fund future capital investment.

Grants—Federal, state and other grant funds are a steady source of outside funding that is tapped by the City and used for specific projects and programs such as transportation safety, trails and green space, economic development and other worthy endeavors based on applicability and need. Several projects in CIP 2016 are funded with grants, as indicated in the document.

Impact Fees— Possible sources of funds which could be investigated include impact fees for

drainage, parks and recreation, street lighting, parking-in-lieu, fire protection, etc. These sources require thorough studies and voter approval prior to implementation. Transportation impact fees are another source of funding that is currently being investigated by the City in partnership with Humboldt County. It's anticipated that a fee structure for transportation impacts resulting from development will be in place by the time CIP 2017 is prepared next winter.

CIP Process and Changes in 2016—Several changes are being implemented in the CIP process this year. The general process began with meeting with department heads and project managers and identifying improvements anticipated for their departments and/or responsibility areas over the 5-year CIP period. Project budget and financing information was reviewed and is included when available. The information is then used by engineering staff to create project worksheets that are formatted and compiled into a Draft CIP for circulation and comment. Comments are incorporated and the final CIP is prepared. The completed CIP is submitted to Development Services staff and sent to the Planning Commission to review conformance with the City's General Plan. Planning Commission and final staff recommendations are submitted to City Council for action and the Final CIP is adopted.

Planning Horizon—The CIP is updated annually by Engineering Staff under the direction of the Deputy Director of Public Works Engineering. In the past, the CIP covered a 5-year period beginning in the next fiscal year after publication of the CIP. CIP 2016 begins with the next fiscal year (2016-17 in this case) to allow direct correlation of capital expenditures with the upcoming budget.

Financial Information—The City's Finance Department staff assists in the CIP preparation by providing relevant budget and financial information to verify that proposed capital expenditures for the current fiscal year match the approved budget, and to review actual expenditures in the past year against budgeted expenditures.

Cost Projections and Budgeting—Effort is made to ensure that all capital projects are described and have an estimated cost. Because many CIP projects are in a conceptual stage, their cost estimates are soft and subject to change as the projects become further defined. Current year estimates in CIP 2016 are in 2016 dollars. Multiple-year and subsequent-year project estimates are inflated 3% per annum and rounded, in an effort to more accurately reflect expected costs within the proposed year of construction. At the point when a project is scheduled to be completed in the upcoming fiscal year, the estimates should be adequate for budgeting and incorporation into the City's adopted budget.

It's important to note that the estimates of next year's projects in the current CIP will be used to

build the next fiscal year budget. For example, FY 2016/17 project cost estimates presented in CIP 2016 form the basis for the 2016/17 budget preparation that begins in February of each year. Flexibility is needed because typically the estimates beyond the first year of the CIP are general with the expectation that they will be adjusted as they are brought into the annual budget process.

It's also important to note that financing is not yet in place for many CIP projects and programs in the years ahead. Project estimates are shown regardless of funding uncertainties. More detailed financing information is provided in those cases where sources of funding are known and finance scheduling is predictable. Activities and capital projects that are not budgeted nor have funding sources are included in the CIP but related financing information is left out.

Conclusion—CIP 2016 is a planning and budgeting tool that lists and classifies all proposed public improvement projects maximizing the investment to the public. Both State law (Section 65401, Article 8, Chapter 3, Title 7, of the Planning and Zoning Law of the State Government Code) and the Eureka Municipal Code [Section 152.01 (B) (6)] require the Planning Commission to annually review the Capital Improvement Program for conformance with the General Plan and forward its recommendations on projects for the ensuing five-year period to the Council and the City Manager. The schedule for CIP 2016 places it on the Planning Commission agenda in early February and on the Council agenda in Early March.

Respectfully Submitted,

Greg L. Sparks, City Manager

Brian Gerving, Public Works Director

Jesse Willor, Deputy Director Public Works - Engineering

City of Eureka
Capital Improvement Program 2016
Five Year Summary
Financing Sources by Category

| FY 2016-17 Project Category | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2016-17 Total | Remaining Cost |
|-----------------------------|----------------------|------------------|-------------------|---------------------|---------------------|------------------|-------------------|---------------------|---------------------|----------------------|----------------------|
| Harbor & Waterfront | \$ 17,336,000 | \$ - | \$ - | \$ - | \$ - | \$ 49,000 | \$ - | \$ - | \$ - | \$ 49,000 | \$ 17,287,000 |
| Land & Facilities | 1,800,000 | 30,000 | - | 17,000 | 17,000 | - | - | 118,000 | 77,000 | 259,000 | 1,541,000 |
| Parks & Recreation | 14,300,000 | 10,000 | - | - | - | - | - | - | 2,095,000 | 2,105,000 | 12,195,000 |
| Streets & Storm Drains | 20,449,000 | - | 250,000 | - | 20,000 | - | 120,000 | - | 1,230,000 | 1,620,000 | 18,829,000 |
| Water Supply Facilities | 7,829,000 | - | - | 3,571,000 | - | - | - | - | - | 3,571,000 | 4,258,000 |
| Wastewater & Sewer | 15,541,000 | - | - | - | 5,355,000 | - | - | - | - | 5,355,000 | 10,186,000 |
| Financing Totals | \$ 77,255,000 | \$ 40,000 | \$ 250,000 | \$ 3,588,000 | \$ 5,392,000 | \$ 49,000 | \$ 120,000 | \$ 118,000 | \$ 3,402,000 | \$ 12,959,000 | \$ 64,296,000 |

| FY 2017-18 Project Category | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2017-18 Total | Remaining Cost |
|-----------------------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------------|------------------|---------------------|---------------------|---------------------|----------------------|
| Harbor & Waterfront | \$ 17,287,000 | \$ - | \$ - | \$ - | \$ - | \$ 21,000 | \$ - | \$ - | \$ - | \$ 21,000 | \$ 17,266,000 |
| Land & Facilities | 1,541,000 | 13,000 | - | 13,000 | 13,000 | - | - | 189,000 | - | 228,000 | 1,313,000 |
| Parks & Recreation | 12,195,000 | 10,000 | - | - | - | - | - | - | 1,793,000 | 1,803,000 | 10,392,000 |
| Streets & Storm Drains | 19,194,000 | 100,000 | 250,000 | - | - | - | 62,000 | - | 627,000 | 1,039,000 | 18,155,000 |
| Water Supply Facilities | 4,266,000 | - | - | 787,000 | - | - | - | - | - | 787,000 | 3,479,000 |
| Wastewater & Sewer | 11,634,000 | - | - | - | 3,228,000 | - | - | - | - | 3,228,000 | 8,406,000 |
| Financing Totals | \$ 66,117,000 | \$ 123,000 | \$ 250,000 | \$ 800,000 | \$ 3,241,000 | \$ 21,000 | \$ 62,000 | \$ 189,000 | \$ 2,420,000 | \$ 7,106,000 | \$ 59,011,000 |

| FY 2018-19 Project Category | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2018-19 Total | Remaining Cost |
|-----------------------------|----------------------|------------------|-------------------|-------------------|---------------------|---------------------|-------------|---------------------|---------------------|---------------------|----------------------|
| Harbor & Waterfront | \$ 17,326,000 | \$ - | \$ - | \$ - | \$ - | \$ 1,060,000 | \$ - | \$ - | \$ - | \$ 1,060,000 | \$ 16,266,000 |
| Land & Facilities | 1,313,000 | 40,000 | - | 111,000 | 111,000 | - | - | 687,000 | - | 949,000 | 364,000 |
| Parks & Recreation | 10,392,000 | 11,000 | - | - | - | - | - | - | 1,854,000 | 1,865,000 | 8,527,000 |
| Streets & Storm Drains | 18,257,000 | - | 250,000 | - | - | - | - | - | 1,919,000 | 2,169,000 | 16,088,000 |
| Water Supply Facilities | 3,479,000 | - | - | 596,000 | - | - | - | - | - | 596,000 | 2,883,000 |
| Wastewater & Sewer | 8,420,000 | - | - | - | 2,162,000 | - | - | - | - | 2,162,000 | 5,034,000 |
| Financing Totals | \$ 59,187,000 | \$ 51,000 | \$ 250,000 | \$ 707,000 | \$ 2,273,000 | \$ 1,060,000 | \$ - | \$ 687,000 | \$ 3,773,000 | \$ 8,801,000 | \$ 49,162,000 |

| FY 2019-20 Project Category | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2019-20 Total | Remaining Cost |
|-----------------------------|----------------------|------------------|-------------------|-------------------|---------------------|-------------------|-------------|---------------------|---------------------|---------------------|----------------------|
| Harbor & Waterfront | \$ 16,266,000 | \$ - | \$ - | \$ - | \$ - | \$ 231,000 | \$ - | \$ - | \$ - | \$ 231,000 | \$ 16,035,000 |
| Land & Facilities | 364,000 | 41,000 | - | 41,000 | 41,000 | - | - | 41,000 | - | 164,000 | 200,000 |
| Parks & Recreation | 8,527,000 | 11,000 | - | - | - | - | - | - | 1,903,000 | 1,914,000 | 6,613,000 |
| Streets & Storm Drains | 16,100,000 | - | 250,000 | - | - | - | - | - | 121,000 | 371,000 | 15,729,000 |
| Water Supply Facilities | 2,949,000 | - | - | 905,000 | - | - | - | - | - | 905,000 | 2,044,000 |
| Wastewater & Sewer | 6,258,000 | - | - | - | 2,118,000 | - | - | - | - | 2,118,000 | 4,140,000 |
| Financing Totals | \$ 50,464,000 | \$ 52,000 | \$ 250,000 | \$ 946,000 | \$ 2,159,000 | \$ 231,000 | \$ - | \$ 41,000 | \$ 2,024,000 | \$ 5,703,000 | \$ 44,761,000 |

| FY 2020-21 Project Category | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2020-21 Total | Remaining Cost |
|-----------------------------|----------------------|------------------|-------------------|-------------------|---------------------|---------------------|-------------|---------------------|---------------------|---------------------|----------------------|
| Harbor & Waterfront | \$ 16,035,000 | \$ - | \$ - | \$ - | \$ - | \$ 1,146,000 | \$ - | \$ - | \$ - | \$ 1,146,000 | \$ 14,889,000 |
| Land & Facilities | 200,000 | - | - | - | - | - | - | - | - | - | 200,000 |
| Parks & Recreation | 6,858,000 | 11,000 | - | - | - | - | - | - | 1,950,000 | 1,961,000 | 4,897,000 |
| Streets & Storm Drains | 15,745,000 | - | 250,000 | - | - | - | - | - | 2,995,000 | 3,245,000 | 12,500,000 |
| Water Supply Facilities | 2,194,000 | - | - | 560,000 | - | - | - | - | - | 560,000 | 1,634,000 |
| Wastewater & Sewer | 4,744,000 | - | - | - | 2,070,000 | - | - | - | - | 2,070,000 | 1,450,000 |
| Financing Totals | \$ 45,776,000 | \$ 11,000 | \$ 250,000 | \$ 560,000 | \$ 2,070,000 | \$ 1,146,000 | \$ - | \$ - | \$ 4,945,000 | \$ 8,982,000 | \$ 35,570,000 |

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2016-17 Projects by Category

| Harbor & Waterfront | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2016-17 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|------------------|-------------|---------------------|-----------------|------------------|----------------------|
| Dredging - Marina and Other City Prop. | \$ 1,000,000 | | | | | | | | | \$ - | \$ 1,000,000 |
| Eureka Public Marina Improvements | 116,000 | | | | | 29,000 | | | | 29,000 | 87,000 |
| Marina Fire Supp. Improvemments | 20,000 | | | | | 20,000 | | | | 20,000 | 0 |
| Dock B Repairs | 15,000,000 | | | | | | | | | 0 | 15,000,000 |
| Commercial Street Fueling Facility | 1,200,000 | | | | | | | | | 0 | 1,200,000 |
| Financing Totals | \$ 17,336,000 | \$ - | \$ - | \$ - | \$ - | \$ 49,000 | \$ - | \$ - | \$ - | \$ 49,000 | \$ 17,287,000 |

| Land & Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2016-17 Total | Remaining Cost |
|------------------------------------|---------------------|------------------|-------------------|------------------|------------------|-------------|-------------|---------------------|------------------|-------------------|---------------------|
| Corporation Yard Fencing and Gates | \$ 50,000 | | | \$ 17,000 | \$ 17,000 | | | \$ 16,000 | | \$ 50,000 | \$ - |
| Corporation Yard Improvements | 375,000 | | | | | | | | | 0 | 375,000 |
| Corporation Yard Settling Basin | 212,000 | | | | | | | | | 0 | 212,000 |
| Adorni Roof Maintenance | 103,000 | | | | | | | | | 0 | 103,000 |
| Municipal Auditorium Improvements | 155,000 | | | | | | | 45,000 | 10,000 | 55,000 | 100,000 |
| ADA Improvements | 30,000 | 30,000 | | | | | | | | 30,000 | 0 |
| City Hall Improvements | 583,000 | | | | | | | 32,000 | | 32,000 | 551,000 |
| Sedimentation Tank Repurposing | 25,000 | | | | | | | 25,000 | | 25,000 | 0 |
| Eureka Police Station Chiller | 200,000 | | | | | | | | | 0 | 200,000 |
| Stream Restoration / Fish Passage | 67,000 | | | | | | | | 67,000 | 67,000 | 0 |
| Financing Totals | \$ 1,800,000 | \$ 30,000 | \$ - | \$ 17,000 | \$ 17,000 | \$ - | \$ - | \$ 118,000 | \$ 77,000 | \$ 259,000 | \$ 1,541,000 |

| Parks & Recreation | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2016-17 Total | Remaining Cost |
|------------------------------------|----------------------|------------------|-------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|----------------------|
| City Parks Automated Irrigation | \$ 250,000 | \$ 10,000 | | | | | | | | \$ 10,000 | \$ 240,000 |
| Park Improvements | 750,000 | | | | | | | | 150,000 | 150,000 | 600,000 |
| Zoo Master Plan Improvements | 10,000,000 | | | | | | | | 1,000,000 | 1,000,000 | 9,000,000 |
| City Wide Trail Improvements | 2,500,000 | | | | | | | | 500,000 | 500,000 | 2,000,000 |
| Zoo Improv. - Entry Pavillion | 50,000 | | | | | | | | 10,000 | 10,000 | 40,000 |
| Zoo Improv. - Aviary Mesh Replace. | 250,000 | | | | | | | | 250,000 | 250,000 | 0 |
| Softball Field Improvements | 50,000 | | | | | | | | 10,000 | 10,000 | 40,000 |
| Eureka Dog Park | 350,000 | | | | | | | | 75,000 | 75,000 | 275,000 |
| Del Norte Street Restrooms | 100,000 | | | | | | | | 100,000 | 100,000 | 0 |
| Financing Totals | \$ 14,300,000 | \$ 10,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2,095,000 | \$ 2,105,000 | \$ 12,195,000 |

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2016-17 Projects by Category

| Streets & Storm Drains | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2016-17 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|------------------|-------------|-------------------|---------------------|---------------------|---------------------|----------------------|
| Street Reconstruct., Overlays & Maint. | \$ 14,000,000 | | \$ 250,000 | | | | | | \$ 250,000 | \$ 500,000 | \$ 13,500,000 |
| Safety Improvement Project | 785,000 | | | | | | | | 575,000 | 575,000 | 210,000 |
| Storm Drain Improvements | 1,900,000 | | | | 20,000 | | | | 180,000 | 200,000 | 1,700,000 |
| Bicycle Facilities | 175,000 | | | | | | | | 175,000 | 175,000 | 0 |
| Sidewalk Repairs Improvements | 250,000 | | | | | | | | 50,000 | 50,000 | 200,000 |
| Parking Meter Installation Phase II | 300,000 | | | | | | 120,000 | | | 120,000 | 180,000 |
| Waterfront Dr. Connection - G to J St. | 2,939,000 | | | | | | | | | 0 | 2,939,000 |
| 4th Street Underground District 11 | 100,000 | | | | | | | | | 0 | 100,000 |
| Financing Totals | \$ 20,449,000 | \$ - | \$ 250,000 | \$ - | \$ 20,000 | \$ - | \$ 120,000 | \$ - | \$ 1,230,000 | \$ 1,620,000 | \$ 18,829,000 |

| Water Supply Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2016-17 Total | Remaining Cost |
|---|---------------------|--------------|-------------------|---------------------|-------------|-------------|-------------|---------------------|-----------------|---------------------|---------------------|
| Mad River Pipeline Ph 6 | \$ 3,000,000 | | | \$ 3,000,000 | | | | | | \$ 3,000,000 | \$ - |
| Water Distribution System Maintenance | 2,420,000 | | | 420,000 | | | | | | 420,000 | 2,000,000 |
| Reservoir Maintenance & Security Prog. | 410,000 | | | | | | | | | 0 | 410,000 |
| Lundbar Hills Booster Pump Sta. Rehab | 250,000 | | | 50,000 | | | | | | 50,000 | 200,000 |
| High Tank Pump Sta. Replacement | 360,000 | | | | | | | | | 0 | 360,000 |
| Corrosion Control - Water Storage Tanks | 75,000 | | | 11,000 | | | | | | 11,000 | 64,000 |
| California Redwood Co. Utility Ext. | 1,314,000 | | | 90,000 | | | | | | 90,000 | 1,224,000 |
| Financing Totals | \$ 7,829,000 | \$ - | \$ - | \$ 3,571,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 3,571,000 | \$ 4,258,000 |

| Wastewater & Sewer | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2016-17 Total | Remaining Cost |
|---|----------------------|--------------|-------------------|-------------|---------------------|-------------|-------------|---------------------|-----------------|---------------------|----------------------|
| Infiltration & Inflow Reduction Program | \$ 5,000,000 | | | | \$ 1,000,000 | | | | | \$ 1,000,000 | \$ 4,000,000 |
| Collection System Annual Maintenance | 2,500,000 | | | | 500,000 | | | | | 500,000 | 2,000,000 |
| Wastewater Lift Station Improvements | 935,000 | | | | 35,000 | | | | | 35,000 | 900,000 |
| Cross Town Interceptor Maintenance | 260,000 | | | | | | | | | 0 | 260,000 |
| Trickling Filter Pumps | 200,000 | | | | 100,000 | | | | | 100,000 | 100,000 |
| Influent Bypass Channel Modifications | 155,000 | | | | 155,000 | | | | | 155,000 | 0 |
| Water Pumps (WWTP) | 60,000 | | | | 30,000 | | | | | 30,000 | 30,000 |
| Combined Heat & Power Replacement | 1,400,000 | | | | 50,000 | | | | | 50,000 | 1,350,000 |
| Pump Station Improvements (MCC) | 775,000 | | | | 775,000 | | | | | 775,000 | 0 |
| Biosolids Dewatering Facility | 500,000 | | | | 100,000 | | | | | 100,000 | 400,000 |
| Elk River Digester Cover Repair | 1,500,000 | | | | 1,500,000 | | | | | 1,500,000 | 0 |
| Primary Clarifier Equipment | 1,000,000 | | | | 1,000,000 | | | | | 1,000,000 | 0 |
| Overflow Marsh Structure Maintenance | 300,000 | | | | 50,000 | | | | | 50,000 | 250,000 |
| Grit Classifier | 80,000 | | | | | | | | | 0 | 80,000 |
| California Redwood Co. Utility Ext. | 876,000 | | | | 60,000 | | | | | 60,000 | 816,000 |
| Financing Totals | \$ 15,541,000 | \$ - | \$ - | \$ - | \$ 5,355,000 | \$ - | \$ - | \$ - | \$ - | \$ 5,355,000 | \$ 10,186,000 |

| | | | | | | | | | | | |
|--------------------|----------------------|------------------|-------------------|---------------------|---------------------|------------------|-------------------|-------------------|---------------------|----------------------|----------------------|
| Grand Total | \$ 77,255,000 | \$ 40,000 | \$ 250,000 | \$ 3,588,000 | \$ 5,392,000 | \$ 49,000 | \$ 120,000 | \$ 118,000 | \$ 3,402,000 | \$ 12,959,000 | \$ 64,296,000 |
|--------------------|----------------------|------------------|-------------------|---------------------|---------------------|------------------|-------------------|-------------------|---------------------|----------------------|----------------------|

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2017-18 Projects by Category

| Harbor & Waterfront | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2015-16 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|------------------|-------------|---------------------|-----------------|------------------|----------------------|
| Dredging - Marina and Other City Prop. | \$ 1,000,000 | | | | | | | | | \$ - | \$ 1,000,000 |
| Eureka Public Marina Improvements | 87,000 | | | | | 21,000 | | | | 21,000 | 66,000 |
| Marina Fire Supp. Improvemments | - | | | | | | | | | - | - |
| Dock B Repairs | 15,000,000 | | | | | | | | | - | 15,000,000 |
| Commercial Street Fueling Facility | 1,200,000 | | | | | | | | | - | 1,200,000 |
| Financing Totals | \$ 17,287,000 | \$ - | \$ - | \$ - | \$ - | \$ 21,000 | \$ - | \$ - | \$ - | \$ 21,000 | \$ 17,266,000 |

| Land & Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2015-16 Total | Remaining Cost |
|------------------------------------|---------------------|------------------|-------------------|------------------|------------------|-------------|-------------|---------------------|-----------------|-------------------|---------------------|
| Corporation Yard Fencing and Gates | \$ - | | | | | | | | | \$ - | \$ - |
| Corporation Yard Improvements | 375,000 | 13,000 | | 13,000 | 13,000 | | | 13,000 | | 52,000 | 323,000 |
| Corporation Yard Settling Basin | 212,000 | | | | | | | | | - | 212,000 |
| Adorni Roof Maintenance | 103,000 | | | | | | | 103,000 | | 103,000 | - |
| Municipal Auditorium Improvements | 100,000 | | | | | | | 52,000 | | 52,000 | 48,000 |
| ADA Improvements | - | | | | | | | | | - | - |
| City Hall Improvements | 551,000 | | | | | | | 21,000 | | 21,000 | 530,000 |
| Sedimentation Tank Repurposing | - | | | | | | | | | - | - |
| Eureka Police Station Chiller | 200,000 | | | | | | | | | - | 200,000 |
| Stream Restoration / Fish Passage | - | | | | | | | | | - | - |
| Financing Totals | \$ 1,541,000 | \$ 13,000 | \$ - | \$ 13,000 | \$ 13,000 | \$ - | \$ - | \$ 189,000 | \$ - | \$ 228,000 | \$ 1,313,000 |

| Parks & Recreation | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2015-16 Total | Remaining Cost |
|------------------------------------|----------------------|------------------|-------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|----------------------|
| City Parks Automated Irrigation | \$ 240,000 | \$ 10,000 | | | | | | | | \$ 10,000 | \$ 230,000 |
| Park Improvements | 600,000 | | | | | | | | 150,000 | 150,000 | 450,000 |
| Zoo Master Plan Improvements | 9,000,000 | | | | | | | | 1,030,000 | 1,030,000 | 7,970,000 |
| City Wide Trail Improvements | 2,000,000 | | | | | | | | 516,000 | 516,000 | 1,484,000 |
| Zoo Improv. - Entry Pavillion | 40,000 | | | | | | | | 10,000 | 10,000 | 30,000 |
| Zoo Improv. - Aviary Mesh Replace. | - | | | | | | | | | - | - |
| Softball Field Improvements | 40,000 | | | | | | | | 10,000 | 10,000 | 30,000 |
| Eureka Dog Park | 275,000 | | | | | | | | 77,000 | 77,000 | 198,000 |
| Del Norte Street Restrooms | - | | | | | | | | | - | - |
| Financing Totals | \$ 12,195,000 | \$ 10,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,793,000 | \$ 1,803,000 | \$ 10,392,000 |

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2017-18 Projects by Category

| Streets & Storm Drains | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2015-16 Total | Remaining Cost |
|--|----------------------|-------------------|-------------------|-------------|-------------|-------------|------------------|---------------------|-------------------|---------------------|----------------------|
| Street Reconstruct., Overlays & Maint. | \$ 13,500,000 | | \$ 250,000 | | | | | | | \$ 250,000 | \$ 13,250,000 |
| Safety Improvement Project | 575,000 | | | | | | | | 575,000 | 575,000 | - |
| Storm Drain Improvements | 1,700,000 | | | | | | | | | - | 1,700,000 |
| Bicycle Facilities | - | | | | | | | | | - | - |
| Sidewalk Repairs Improvements | 200,000 | | | | | | | | 52,000 | 52,000 | 148,000 |
| Parking Meter Installation Phase II | 180,000 | | | | | | 62,000 | | | 62,000 | 118,000 |
| Waterfront Dr. Connection - G to J St. | 2,939,000 | | | | | | | | | - | 2,939,000 |
| 4th Street Underground District 11 | 100,000 | 100,000 | | | | | | | | 100,000 | - |
| Financing Totals | \$ 19,194,000 | \$ 100,000 | \$ 250,000 | \$ - | \$ - | \$ - | \$ 62,000 | \$ - | \$ 627,000 | \$ 1,039,000 | \$ 18,155,000 |

| Water Supply Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2015-16 Total | Remaining Cost |
|---|---------------------|--------------|-------------------|-------------------|-------------|-------------|-------------|---------------------|-----------------|-------------------|---------------------|
| Mad River Pipeline Ph 6 | \$ - | | | | | | | | | \$ - | \$ - |
| Water Distribution System Maintenance | 2,000,000 | | | 515,000 | | | | | | 515,000 | 1,485,000 |
| Reservior Maintenance & Security Prog. | 410,000 | | | | | | | | | - | 410,000 |
| Lundbar Hills Booster Pump Sta. Rehab | 206,000 | | | 206,000 | | | | | | 206,000 | - |
| High Tank Pump Sta. Replacement | 360,000 | | | | | | | | | - | 360,000 |
| Corrosion Control - Water Storage Tanks | 66,000 | | | 66,000 | | | | | | 66,000 | - |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | 1,224,000 |
| Financing Totals | \$ 4,266,000 | \$ - | \$ - | \$ 787,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 787,000 | \$ 3,479,000 |

| Wastewater & Sewer | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2015-16 Total | Remaining Cost |
|---|----------------------|--------------|-------------------|-------------|---------------------|-------------|-------------|---------------------|-----------------|---------------------|---------------------|
| Infiltration & Inflow Reduction Program | \$ 4,000,000 | | | | \$ 1,030,000 | | | | | \$ 1,030,000 | \$ 2,970,000 |
| Collection System Annual Maintenance | 2,000,000 | | | | 516,000 | | | | | 516,000 | 1,484,000 |
| Wastewater Lift Station Improvements | 900,000 | | | | 206,000 | | | | | 206,000 | 694,000 |
| Cross Town Interceptor Maintenance | 260,000 | | | | 83,000 | | | | | 83,000 | 177,000 |
| Trickling Filter Pumps | 100,000 | | | | | | | | | - | 100,000 |
| Influent Bypass Channel Modifications | - | | | | | | | | | - | - |
| Water Pumps (WWTP) | 30,000 | | | | | | | | | - | 30,000 |
| Combined Heat & Power Replacement | 1,350,000 | | | | | | | | | - | 1,350,000 |
| Pump Station Improvements (MCC) | - | | | | | | | | | - | - |
| Biosolids Dewatering Facility | 400,000 | | | | 103,000 | | | | | 103,000 | 297,000 |
| Elk River Digester Cover Repair | - | | | | | | | | | - | - |
| Primary Clarifier Equipment | 1,030,000 | | | | 1,030,000 | | | | | 1,030,000 | - |
| Overflow Marsh Structure Maintenance | 260,000 | | | | 260,000 | | | | | 260,000 | - |
| Grit Classifier | 80,000 | | | | | | | | | - | 80,000 |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | 1,224,000 |
| Financing Totals | \$ 11,634,000 | \$ - | \$ - | \$ - | \$ 3,228,000 | \$ - | \$ - | \$ - | \$ - | \$ 3,228,000 | \$ 8,406,000 |

| | | | | | | | | | | | |
|--------------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|---------------------|----------------------|
| Grand Total | \$ 66,117,000 | \$ 123,000 | \$ 250,000 | \$ 800,000 | \$ 3,241,000 | \$ 21,000 | \$ 62,000 | \$ 189,000 | \$ 2,420,000 | \$ 7,106,000 | \$ 59,011,000 |
|--------------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------------|------------------|-------------------|---------------------|---------------------|----------------------|

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2018-19 Projects by Category

| Harbor & Waterfront | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2018-19 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|---------------------|-------------|---------------------|-----------------|---------------------|----------------------|
| Dredging - Marina and Other City Prop. | \$ 1,060,000 | | | | | \$ 1,060,000 | | | | \$ 1,060,000 | \$ - |
| Eureka Public Marina Improvements | 66,000 | | | | | | | | | - | 66,000 |
| Marina Fire Supp. Improvemments | - | | | | | | | | | - | - |
| Dock B Repairs | 15,000,000 | | | | | | | | | - | 15,000,000 |
| Commercial Street Fueling Facility | 1,200,000 | | | | | | | | | - | 1,200,000 |
| Financing Totals | \$ 17,326,000 | \$ - | \$ - | \$ - | \$ - | \$ 1,060,000 | \$ - | \$ - | \$ - | \$ 1,060,000 | \$ 16,266,000 |

| Land & Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2018-19 Total | Remaining Cost |
|------------------------------------|---------------------|------------------|-------------------|-------------------|-------------------|-------------|-------------|---------------------|-----------------|-------------------|-------------------|
| Corporation Yard Fencing and Gates | \$ - | | | | | | | | | \$ - | \$ - |
| Corporation Yard Improvements | 323,000 | 40,000 | | 40,000 | 40,000 | | | 39,000 | | 159,000 | 164,000 |
| Corporation Yard Settling Basin | 212,000 | | | 71,000 | 71,000 | | | 70,000 | | 212,000 | - |
| Adorni Roof Maintenance | - | | | | | | | | | - | - |
| Municipal Auditorium Improvements | 48,000 | | | | | | | 48,000 | | 48,000 | - |
| ADA Improvements | - | | | | | | | | | - | - |
| City Hall Improvements | 530,000 | | | | | | | 530,000 | | 530,000 | - |
| Sedimentation Tank Repurposing | - | | | | | | | | | - | - |
| Eureka Police Station Chiller | 200,000 | | | | | | | | | - | 200,000 |
| Stream Restoration / Fish Passage | - | | | | | | | | | - | - |
| Financing Totals | \$ 1,313,000 | \$ 40,000 | \$ - | \$ 111,000 | \$ 111,000 | \$ - | \$ - | \$ 687,000 | \$ - | \$ 949,000 | \$ 364,000 |

| Parks & Recreation | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2018-19 Total | Remaining Cost |
|------------------------------------|----------------------|------------------|-------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|
| City Parks Automated Irrigation | \$ 230,000 | \$ 11,000 | | | | | | | | \$ 11,000 | \$ 219,000 |
| Park Improvements | 450,000 | | | | | | | | 160,000 | 160,000 | 290,000 |
| Zoo Master Plan Improvements | 7,970,000 | | | | | | | | 1,060,000 | 1,060,000 | 6,910,000 |
| City Wide Trail Improvements | 1,484,000 | | | | | | | | 530,000 | 530,000 | 954,000 |
| Zoo Improv. - Entry Pavillion | 30,000 | | | | | | | | 11,000 | 11,000 | 19,000 |
| Zoo Improv. - Aviary Mesh Replace. | - | | | | | | | | | - | - |
| Softball Field Improvements | 30,000 | | | | | | | | 11,000 | 11,000 | 19,000 |
| Eureka Dog Park | 198,000 | | | | | | | | 82,000 | 82,000 | 116,000 |
| Del Norte Street Restrooms | - | | | | | | | | | - | - |
| Financing Totals | \$ 10,392,000 | \$ 11,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,854,000 | \$ 1,865,000 | \$ 8,527,000 |

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2018-19 Projects by Category

| Streets & Storm Drains | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2018-19 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|----------------------|
| Street Reconstruct., Overlays & Maint. | \$ 13,250,000 | | \$ 250,000 | | | | | | | \$ 250,000 | \$ 13,000,000 |
| Safety Improvement Project | - | | | | | | | | | - | - |
| Storm Drain Improvements | 1,802,000 | | | | | | | | 1,802,000 | 1,802,000 | - |
| Bicycle Facilities | - | | | | | | | | | - | - |
| Sidewalk Repairs Improvements | 148,000 | | | | | | | | 53,000 | 53,000 | 95,000 |
| Parking Meter Installation Phase II | 118,000 | | | | | | | | 64,000 | 64,000 | 54,000 |
| Waterfront Dr. Connection - G to J St. | 2,939,000 | | | | | | | | | - | 2,939,000 |
| 4th Street Underground District 11 | - | | | | | | | | | - | - |
| Financing Totals | \$ 18,257,000 | \$ - | \$ 250,000 | \$ - | \$ 1,919,000 | \$ 2,169,000 | \$ 16,088,000 |

| Water Supply Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2018-19 Total | Remaining Costs |
|---|---------------------|--------------|-------------------|-------------------|-------------|-------------|-------------|---------------------|-----------------|-------------------|---------------------|
| Mad River Pipeline Ph 6 | \$ - | | | | | | | | | \$ - | \$ - |
| Water Distribution System Maintenance | 1,485,000 | | | 530,000 | | | | | | 530,000 | 955,000 |
| Reservior Maintenance & Security Prog. | 410,000 | | | | | | | | | - | 410,000 |
| Lundbar Hills Booster Pump Sta. Rehab | - | | | | | | | | | - | - |
| High Tank Pump Sta. Replacement | 360,000 | | | 66,000 | | | | | | 66,000 | 294,000 |
| Corrosion Control - Water Storage Tanks | - | | | | | | | | | - | - |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | 1,224,000 |
| Financing Totals | \$ 3,479,000 | \$ - | \$ - | \$ 596,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 596,000 | \$ 2,883,000 |

| Wastewater & Sewer | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2018-19 Total | Remaining Cost |
|---|---------------------|--------------|-------------------|-------------|---------------------|-------------|-------------|---------------------|-----------------|---------------------|---------------------|
| Infiltration & Inflow Reduction Program | \$ 2,970,000 | | | | \$ 1,070,000 | | | | | \$ 1,070,000 | \$ 1,900,000 |
| Collection System Annual Maintenance | 1,484,000 | | | | 530,000 | | | | | 530,000 | 954,000 |
| Wastewater Lift Station Improvements | 694,000 | | | | 265,000 | | | | | 265,000 | 429,000 |
| Cross Town Interceptor Maintenance | 191,000 | | | | 191,000 | | | | | 191,000 | - |
| Trickling Filter Pumps | 100,000 | | | | | | | | | - | 100,000 |
| Influent Bypass Channel Modifications | - | | | | | | | | | - | - |
| Water Pumps (WWTP) | 30,000 | | | | | | | | | - | 30,000 |
| Combined Heat & Power Replacement | 1,350,000 | | | | | | | | | - | 1,350,000 |
| Pump Station Improvements (MCC) | - | | | | | | | | | - | - |
| Biosolids Dewatering Facility | 297,000 | | | | 106,000 | | | | | 106,000 | 191,000 |
| Elk River Digester Cover Repair | - | | | | | | | | | - | - |
| Primary Clarifier Equipment | - | | | | | | | | | - | - |
| Overflow Marsh Structure Maintenance | - | | | | | | | | | - | - |
| Grit Classifier | 80,000 | | | | | | | | | - | 80,000 |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | - |
| Financing Totals | \$ 8,420,000 | \$ - | \$ - | \$ - | \$ 2,162,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,162,000 | \$ 5,034,000 |

| | | | | | | | | | | | |
|--------------------|----------------------|------------------|-------------------|-------------------|---------------------|---------------------|-------------|-------------------|---------------------|---------------------|----------------------|
| Grand Total | \$ 59,187,000 | \$ 51,000 | \$ 250,000 | \$ 707,000 | \$ 2,273,000 | \$ 1,060,000 | \$ - | \$ 687,000 | \$ 3,773,000 | \$ 8,801,000 | \$ 49,162,000 |
|--------------------|----------------------|------------------|-------------------|-------------------|---------------------|---------------------|-------------|-------------------|---------------------|---------------------|----------------------|

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2019-20 Projects by Category

| Harbor & Waterfront | Project Total | General Fund | Highway Users Tax | Water | Wasterwater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2019-20 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|-------------------|-------------|---------------------|-----------------|-------------------|----------------------|
| Dredging - Marina and Other City Prop. | \$ - | | | | | | | | | \$ - | \$ - |
| Eureka Public Marina Improvements | 66,000 | | | | | 31,000 | | | | 31,000 | 35,000 |
| Marina Fire Supp. Improvemments | - | | | | | | | | | - | - |
| Dock B Repairs | 15,000,000 | | | | | | | | | - | 15,000,000 |
| Commercial Street Fueling Facility | 1,200,000 | | | | | 200,000 | | | | 200,000 | 1,000,000 |
| Financing Totals | \$ 16,266,000 | \$ - | \$ - | \$ - | \$ - | \$ 231,000 | \$ - | \$ - | \$ - | \$ 231,000 | \$ 16,035,000 |

| Land & Facilities | Project Total | General Fund | Highway Users Tax | Water | Wasterwater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2019-20 Total | Remaining Cost |
|------------------------------------|-------------------|------------------|-------------------|------------------|------------------|-------------|-------------|---------------------|-----------------|-------------------|-------------------|
| Corporation Yard Fencing and Gates | \$ - | | | | | | | | | \$ - | \$ - |
| Corporation Yard Improvements | 164,000 | 41,000 | | 41,000 | 41,000 | | | 41,000 | | 164,000 | - |
| Corporation Yard Settling Basin | - | | | | | | | | | - | - |
| Adorni Roof Maintenance | - | | | | | | | | | - | - |
| Municipal Auditorium Improvements | - | | | | | | | | | - | - |
| ADA Improvements | - | | | | | | | | | - | - |
| City Hall Improvements | - | | | | | | | | | - | - |
| Sedimentation Tank Repurposing | - | | | | | | | | | - | - |
| Eureka Police Station Chiller | 200,000 | | | | | | | | | - | 200,000 |
| Stream Restoration / Fish Passage | - | | | | | | | | | - | - |
| Financing Totals | \$ 364,000 | \$ 41,000 | \$ - | \$ 41,000 | \$ 41,000 | \$ - | \$ - | \$ 41,000 | \$ - | \$ 164,000 | \$ 200,000 |

| Parks & Recreation | Project Total | General Fund | Highway Users Tax | Water | Wasterwater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2019-20 Total | Remaining Cost |
|------------------------------------|---------------------|------------------|-------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|
| City Parks Automated Irrigation | \$ 219,000 | \$ 11,000 | | | | | | | | \$ 11,000 | \$ 208,000 |
| Park Improvements | 290,000 | | | | | | | | 165,000 | 165,000 | 125,000 |
| Zoo Master Plan Improvements | 6,910,000 | | | | | | | | 1,090,000 | 1,090,000 | 5,820,000 |
| City Wide Trail Improvements | 954,000 | | | | | | | | 544,000 | 544,000 | 410,000 |
| Zoo Improv. - Entry Pavillion | 19,000 | | | | | | | | 11,000 | 11,000 | 8,000 |
| Zoo Improv. - Aviary Mesh Replace. | - | | | | | | | | | - | - |
| Softball Field Improvements | 19,000 | | | | | | | | 11,000 | 11,000 | 8,000 |
| Eureka Dog Park | 116,000 | | | | | | | | 82,000 | 82,000 | 34,000 |
| Del Norte Street Restrooms | - | | | | | | | | | - | - |
| Financing Totals | \$ 8,527,000 | \$ 11,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,903,000 | \$ 1,914,000 | \$ 6,613,000 |

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2019-20 Projects by Category

| Streets & Storm Drains | Project Total | General Fund | Highway Users Tax | Water | Wasterwater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2019-20 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|-------------|-------------|---------------------|-------------------|-------------------|----------------------|
| Street Reconstruct., Overlays & Maint. | \$ 13,000,000 | | \$ 250,000 | | | | | | | \$ 250,000 | \$ 12,750,000 |
| Safety Improvement Project | - | | | | | | | | | - | - |
| Storm Drain Improvements | - | | | | | | | | | - | - |
| Bicycle Facilities | - | | | | | | | | | - | - |
| Sidewalk Repairs Improvements | 95,000 | | | | | | | | 55,000 | 55,000 | 40,000 |
| Parking Meter Installation Phase II | 66,000 | | | | | | | | 66,000 | 66,000 | - |
| Waterfront Dr. Connection - G to J St. | 2,939,000 | | | | | | | | | - | 2,939,000 |
| 4th Street Underground District 11 | - | | | | | | | | | - | - |
| Financing Totals | \$ 16,100,000 | \$ - | \$ 250,000 | \$ - | \$ 121,000 | \$ 371,000 | \$ 15,729,000 |

| Water Supply Facilities | Project Total | General Fund | Highway Users Tax | Water | Wasterwater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2019-20 Total | Remaining Costs |
|---|---------------------|--------------|-------------------|-------------------|-------------|-------------|-------------|---------------------|-----------------|-------------------|---------------------|
| Mad River Pipeline Ph 6 | \$ - | | | | | | | | | \$ - | \$ - |
| Water Distribution System Maintenance | 955,000 | | | 545,000 | | | | | | 545,000 | 410,000 |
| Reservior Maintenance & Security Prog. | 410,000 | | | | | | | | | - | 410,000 |
| Lundbar Hills Booster Pump Sta. Rehab | - | | | | | | | | | - | - |
| High Tank Pump Sta. Replacement | 360,000 | | | 360,000 | | | | | | 360,000 | - |
| Corrosion Control - Water Storage Tanks | - | | | | | | | | | - | - |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | 1,224,000 |
| Financing Totals | \$ 2,949,000 | \$ - | \$ - | \$ 905,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 905,000 | \$ 2,044,000 |

| Wastewater & Sewer | Project Total | General Fund | Highway Users Tax | Water | Wasterwater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2019-20 Total | Remaining Cost |
|---|---------------------|--------------|-------------------|-------------|---------------------|-------------|-------------|---------------------|-----------------|---------------------|---------------------|
| Infiltration & Inflow Reduction Program | \$ 1,900,000 | | | | \$ 1,110,000 | | | | | \$ 1,110,000 | \$ 790,000 |
| Collection System Annual Maintenance | 954,000 | | | | 546,000 | | | | | 546,000 | 408,000 |
| Wastewater Lift Station Improvements | 429,000 | | | | 273,000 | | | | | 273,000 | 156,000 |
| Cross Town Interceptor Maintenance | - | | | | | | | | | - | - |
| Trickling Filter Pumps | 100,000 | | | | | | | | | - | 100,000 |
| Influent Bypass Channel Modifications | - | | | | | | | | | - | - |
| Water Pumps (WWTP) | 30,000 | | | | | | | | | - | 30,000 |
| Combined Heat & Power Replacement | 1,350,000 | | | | | | | | | - | 1,350,000 |
| Pump Station Improvements (MCC) | - | | | | | | | | | - | - |
| Biosolids Dewatering Facility | 191,000 | | | | 109,000 | | | | | 109,000 | 82,000 |
| Elk River Digester Cover Repair | - | | | | | | | | | - | - |
| Primary Clarifier Equipment | - | | | | | | | | | - | - |
| Overflow Marsh Structure Maintenance | - | | | | | | | | | - | - |
| Grit Classifier | 80,000 | | | | 80,000 | | | | | 80,000 | - |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | 1,224,000 |
| Financing Totals | \$ 6,258,000 | \$ - | \$ - | \$ - | \$ 2,118,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,118,000 | \$ 4,140,000 |

| | | | | | | | | | | | |
|--------------------|----------------------|------------------|-------------------|-------------------|---------------------|-------------------|-------------|------------------|---------------------|---------------------|----------------------|
| Grand Total | \$ 50,464,000 | \$ 52,000 | \$ 250,000 | \$ 946,000 | \$ 2,159,000 | \$ 231,000 | \$ - | \$ 41,000 | \$ 2,024,000 | \$ 5,703,000 | \$ 44,761,000 |
|--------------------|----------------------|------------------|-------------------|-------------------|---------------------|-------------------|-------------|------------------|---------------------|---------------------|----------------------|

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2020-21 Projects by Category

| Harbor & Waterfront | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2020-21 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|---------------------|-------------|---------------------|-----------------|---------------------|----------------------|
| Dredging - Marina and Other City Prop. | \$ - | | | | | | | | | \$ - | \$ - |
| Eureka Public Marina Improvements | 35,000 | | | | | 35,000 | | | | 35,000 | - |
| Marina Fire Supp. Improvements | - | | | | | | | | | - | - |
| Dock B Repairs | 15,000,000 | | | | | 111,000 | | | | 111,000 | 14,889,000 |
| Commercial Street Fueling Facility | 1,000,000 | | | | | 1,000,000 | | | | 1,000,000 | - |
| Financing Totals | \$ 16,035,000 | \$ - | \$ - | \$ - | \$ - | \$ 1,146,000 | \$ - | \$ - | \$ - | \$ 1,146,000 | \$ 14,889,000 |

| Land & Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2020-21 Total | Remaining Cost |
|------------------------------------|-------------------|--------------|-------------------|-------------|-------------|-------------|-------------|---------------------|-----------------|---------------|-------------------|
| Corporation Yard Fencing and Gates | \$ - | | | | | | | | | \$ - | \$ - |
| Corporation Yard Improvements | - | | | | | | | | | - | - |
| Corporation Yard Settling Basin | - | | | | | | | | | - | - |
| Adorni Roof Maintenance | - | | | | | | | | | - | - |
| Municipal Auditorium Improvements | - | | | | | | | | | - | - |
| ADA Improvements | - | | | | | | | | | - | - |
| City Hall Improvements | - | | | | | | | | | - | - |
| Sedimentation Tank Repurposing | - | | | | | | | | | - | - |
| Eureka Police Station Chiller | 200,000 | | | | | | | | | - | 200,000 |
| Stream Restoration / Fish Passage | - | | | | | | | | | - | - |
| Financing Totals | \$ 200,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 200,000 |

| Parks & Recreation | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2020-21 Total | Remaining Cost |
|------------------------------------|---------------------|------------------|-------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|
| City Parks Automated Irrigation | \$ 208,000 | \$ 11,000 | | | | | | | | \$ 11,000 | \$ 197,000 |
| Park Improvements | 170,000 | | | | | | | | 170,000 | 170,000 | - |
| Zoo Master Plan Improvements | 5,820,000 | | | | | | | | 1,120,000 | 1,120,000 | 4,700,000 |
| City Wide Trail Improvements | 560,000 | | | | | | | | 560,000 | 560,000 | - |
| Zoo Improv. - Entry Pavillion | 11,000 | | | | | | | | 11,000 | 11,000 | - |
| Zoo Improv. - Aviary Mesh Replace. | - | | | | | | | | | - | - |
| Softball Field Improvements | 11,000 | | | | | | | | 11,000 | 11,000 | - |
| Eureka Dog Park | 78,000 | | | | | | | | 78,000 | 78,000 | - |
| Del Norte Street Restrooms | - | | | | | | | | | - | - |
| Financing Totals | \$ 6,858,000 | \$ 11,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,950,000 | \$ 1,961,000 | \$ 4,897,000 |

City of Eureka
Capital Improvement Program 2016
Five Year Summary
FY 2020-21 Projects by Category

| Streets & Storm Drains | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2020-21 Total | Remaining Cost |
|--|----------------------|--------------|-------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|----------------------|
| Street Reconstruct., Overlays & Maint. | \$ 12,750,000 | | \$ 250,000 | | | | | | | \$ 250,000 | \$ 12,500,000 |
| Safety Improvement Project | - | | | | | | | | | - | - |
| Storm Drain Improvements | - | | | | | | | | | - | - |
| Bicycle Facilities | - | | | | | | | | | - | - |
| Sidewalk Repairs Improvements | 56,000 | | | | | | | | 56,000 | 56,000 | - |
| Parking Meter Installation Phase II | - | | | | | | | | | - | - |
| Waterfront Dr. Connection - G to J St. | 2,939,000 | | | | | | | | 2,939,000 | 2,939,000 | - |
| 4th Street Underground District 11 | - | | | | | | | | | - | - |
| Financing Totals | \$ 15,745,000 | \$ - | \$ 250,000 | \$ - | \$ 2,995,000 | \$ 3,245,000 | \$ 12,500,000 |

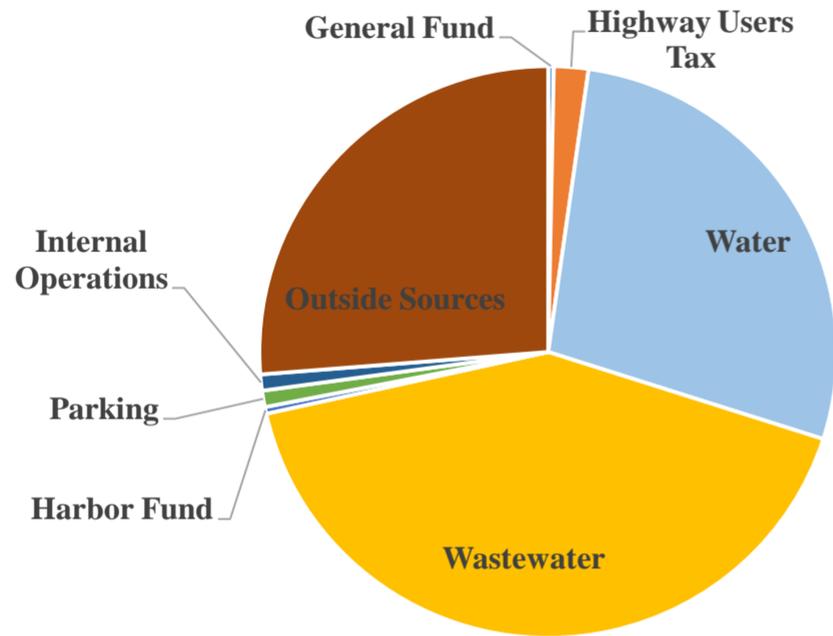
| Water Supply Facilities | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2020-21 Total | Remaining Costs |
|---|---------------------|--------------|-------------------|-------------------|-------------|-------------|-------------|---------------------|-----------------|-------------------|---------------------|
| Mad River Pipeline Ph 6 | \$ - | | | | | | | | | \$ - | \$ - |
| Water Distribution System Maintenance | 560,000 | | | 560,000 | | | | | | 560,000 | - |
| Reservoir Maintenance & Security Prog. | 410,000 | | | | | | | | | - | 410,000 |
| Lundbar Hills Booster Pump Sta. Rehab | - | | | | | | | | | - | - |
| High Tank Pump Sta. Replacement | - | | | | | | | | | - | - |
| Corrosion Control - Water Storage Tanks | - | | | | | | | | | - | - |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | 1,224,000 |
| Financing Totals | \$ 2,194,000 | \$ - | \$ - | \$ 560,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 560,000 | \$ 1,634,000 |

| Wastewater & Sewer | Project Total | General Fund | Highway Users Tax | Water | Wastewater | Harbor Fund | Parking | Internal Operations | Outside Sources | 2020-21 Total | Remaining Cost |
|---|---------------------|--------------|-------------------|-------------|---------------------|-------------|-------------|---------------------|-----------------|---------------------|---------------------|
| Infiltration & Inflow Reduction Program | \$ 1,140,000 | | | | \$ 1,140,000 | | | | | \$ 1,140,000 | \$ - |
| Collection System Annual Maintenance | 560,000 | | | | 560,000 | | | | | 560,000 | - |
| Wastewater Lift Station Improvements | 224,000 | | | | 224,000 | | | | | 224,000 | - |
| Cross Town Interceptor Maintenance | - | | | | | | | | | - | - |
| Trickling Filter Pumps | 100,000 | | | | | | | | | - | 100,000 |
| Influent Bypass Channel Modifications | - | | | | | | | | | - | - |
| Water Pumps (WWTP) | 34,000 | | | | 34,000 | | | | | 34,000 | - |
| Combined Heat & Power Replacement | 1,350,000 | | | | | | | | | - | 1,350,000 |
| Pump Station Improvements (MCC) | - | | | | | | | | | - | - |
| Biosolids Dewatering Facility | 112,000 | | | | 112,000 | | | | | 112,000 | - |
| Elk River Digester Cover Repair | - | | | | | | | | | - | - |
| Primary Clarifier Equipment | - | | | | | | | | | - | - |
| Overflow Marsh Structure Maintenance | - | | | | | | | | | - | - |
| Grit Classifier | - | | | | | | | | | - | - |
| California Redwood Co. Utility Ext. | 1,224,000 | | | | | | | | | - | - |
| Financing Totals | \$ 4,744,000 | \$ - | \$ - | \$ - | \$ 2,070,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,070,000 | \$ 1,450,000 |

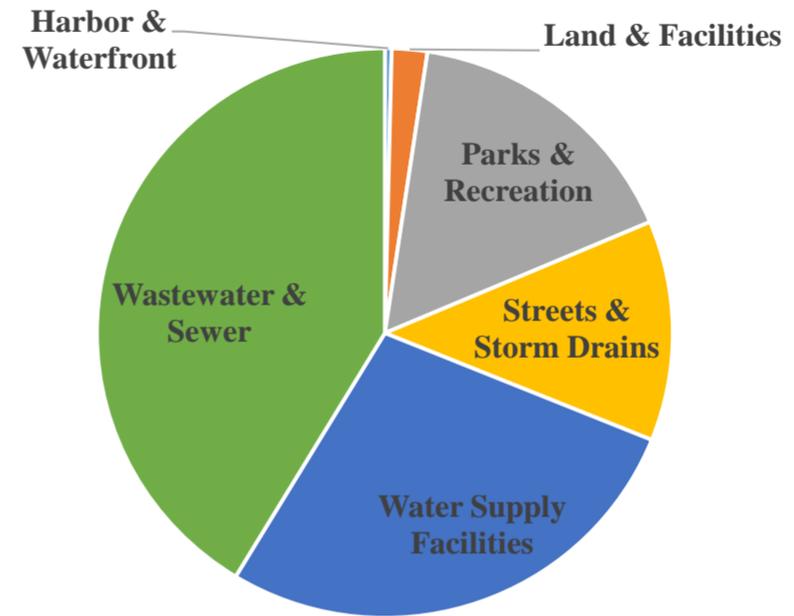
| | | | | | | | | | | | |
|--------------------|-------------------|---------------|----------------|----------------|------------------|------------------|----------|----------|------------------|------------------|-------------------|
| Grand Total | 45,776,000 | 11,000 | 250,000 | 560,000 | 2,070,000 | 1,146,000 | - | - | 4,945,000 | 8,982,000 | 35,570,000 |
|--------------------|-------------------|---------------|----------------|----------------|------------------|------------------|----------|----------|------------------|------------------|-------------------|

City of Eureka
Capital Improvement Program 2016
FY 2016-17 Sources & Uses

Financing Sources



Financing Uses





Eureka Boat Basin

HARBOR & WATERFRONT

Capital Improvement Program 2016/17
FIVE YEAR SUMMARY



HARBOR & WATERFRONT

| Page # | Project Name | (Thousands of Dollars) | | | | | |
|--------------|--|------------------------|--------------|--------------|-----------------|---------------|-----------------|
| | | Total Project Cost | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| | | 2016 Dollars | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 |
| PG. 1-3 | DREDGING MARINA & OTHER CITY PROPERTIES | \$ 1,000 | \$ - | \$ - | \$ 1,060 | \$ - | \$ - |
| PG. 1-4 | EUREKA PUBLIC MARINA IMPROVEMENTS | \$ 116 | \$ 29 | \$ 21 | \$ - | \$ 31 | \$ 35 |
| PG. 1-5 | MARINA FIRE SUPPRESSION SYSTEM REPAIRS | \$ 20 | \$ 20 | \$ - | \$ - | \$ - | \$ - |
| PG 1-6 | DOCK B REPAIRS | \$ 15,000 | \$ - | \$ - | \$ - | \$ - | \$ 1,110 |
| PG 1-7 | COMMERCIAL STREET FUELING FACILITY | \$ 1,200 | \$ - | \$ - | \$ - | \$ 224 | \$ 1,120 |
| TOTAL | | \$ 17,336 | \$ 49 | \$ 21 | \$ 1,060 | \$ 255 | \$ 2,265 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION / STATUS REPORT



DREDGING MARINA & OTHER CITY PROPERTIES

Category: *Harbor & Waterfront*

Project Manager: *Miles Slattery*

Project Description

The marina is a critical piece of the Eureka Waterfront and requires dredging to allow boats to safely dock. Other City owned waterfront docks are similarly affected.



City of Eureka Marina

Project Location

Eureka Waterfront Docks

Justification

The accumulation of sediment at the City owned marina has decreased depths and impacted the ability of vessels to easily enter, exit and dock. This accumulation of sediment is apparent along most of Eureka's waterfront and requires dredging to maintain the integrity and function of City property.

City Council Priority and Goals

Identified as a High Priority Goal of dredging Marina, Fisherman's Terminal / "C" Street, Bonnie Gool, and Samoa Boat Landing in the 2020 Strategic Plan.

Studies and Reports

None

Comments

The cost to dredge would not include permitting and environmental documentation, which would be handled by City staff.

Prior Appropriations

Not Available

Fiscal Impact

The cost estimate to hire a contractor to dredge the marina and other City owned waterfront docks is estimated to be in the range of \$1,000,000 (2016 dollars) plus 3% inflation per year.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|----------------|------------|------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | \$1,060 | | | \$1,060 |
| Expenditure Totals | \$0 | \$0 | \$1,060 | \$0 | \$0 | \$1,060 |
| Harbor Fund | | | \$1,060 | | | \$1,060 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$1,060 | \$0 | \$0 | \$1,060 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



EUREKA PUBLIC MARINA IMPROVEMENTS

Category: *Harbor & Waterfront*

Project Manager: *Miles Slattery*

Project Description

Improvements to the Eureka Public Marina which serves as a recreational, live-aboard and commercial boating center for the North Coast Region.



Eureka Marina

Project Location

City of Eureka Marina

Justification

Improvements are necessary to maintain and enhance the overall quality of visitor services and functional marina operations.

City Council Priority and Goals

Meets 2020 Strategic Plan goals of an alive waterfront and business investment.

Studies and Reports

1999 Eureka Public Marina construction drawings, plans and specifications

Comments

Prior Appropriations

None

Fiscal Impact

Harbor Fund, \$107,000 total. (2016 dollars Including 3% inflation per year)

| | |
|--|----------|
| Wifi and computer enhancements for Automatic Identification System (AIS) | \$13,000 |
| Marina port-security camera system | \$16,000 |
| Paddle Craft dock and storage lockers | \$21,000 |
| Tenant and public picnic tables | \$9,000 |
| Replacement of 2-ton hoist at Fisherman's terminal | \$18,000 |
| Power Supply Replacment at Bonnie Gool Dock | \$10,000 |
| Repair/rebuild F Street dock | \$20,000 |

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|------------|-------------|-------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$29 | \$21 | | \$31 | \$35 | \$116 |
| Expenditure Totals | \$29 | \$21 | \$0 | \$31 | \$35 | \$116 |
| Harbor Fund | \$29 | \$21 | | \$31 | \$35 | \$116 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$29 | \$21 | \$0 | \$31 | \$35 | \$116 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



MARINA FIRE SUPPRESSION SYSTEM REPAIRS

Category: *Harbor & Waterfront*

Project Manager: *Miles Slattery*

Project Description

The fire suppression system for the Eureka Public Marina is constantly being repaired due to poor construction materials, harsh environment and limited maintenance after 15 years of service.



Project Location

City of Eureka Marina

Justification

The installation of a new fire suppression system will reduce maintenance and emergency repairs of a infrastructure.

City Council Priority and Goals

Meets Strategic Plan 2020 goalsof an alive waterfront and make a more liveable community.

Studies and Reports

1999 Eureka Public Marina construction drawings, plans and specifications.

Comments

The original installation of suspended inflexible waterlines using support cables has failed due to wave action and dock movement.

Prior Appropriations

None

Fiscal Impact

Total Cost: \$20,000 (2016 dollars) plus 3% inflation per year.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$20 | | | | | \$20 |
| Expenditure Totals | \$20 | \$0 | \$0 | \$0 | \$0 | \$20 |
| Harbor Fund | \$20 | | | | | \$20 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$20 | \$0 | \$0 | \$0 | \$0 | \$20 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



DOCK B REPAIRS

Category: *Harbor & Waterfront*

Project Manager: *Miles Slattery*

Project Description

Dock B either needs to be rebuilt or repaired. Repairing the dock appears to be the cheaper short term option. Repair would include approx. 500 LF of dock and 350 LF of approach ramp.

Project Location

Marina Way

Justification

Dock B is an existing piece of infrastructure that has been taken out of service due to the January 2010 earthquake. This facility could be a key component of waterfront revitalization.



Dock B Aerial

City Council Priority and Goals

Meets Strategic Plan 2020 goals of an alive waterfront and business investment.

Studies and Reports

Dock B Reconstruction & Use Alternatives, Winzler & Kelley
Eureka Waterfront Revitalization Program, Harbor Commission
Humboldt Bay Development Plan, Martin O'Connell
Public Terminal Implementation Plan, Vickerman

Comments

Prior Appropriations

None

Fiscal Impact

Total cost: Approx. \$15,000,000, Harbor Fund and potential grant funding, such as Economic Development Administration (EDA) grants. Estimated costs are \$1,110,00 for design and \$14,000,000 for construction.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|------------------------------|------------------------|------------|------------|------------|----------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | \$1,110 | \$1,110 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$0 | \$0 | \$0 | \$0 | \$1,110 | \$1,110 |
| Harbor Funds | | | | | | \$0 |
| EDA Grant (Potential Source) | | | | | \$1,110 | \$1,110 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$0 | \$0 | \$1,110 | \$1,110 |



COMMERCIAL STREET FUELING FACILITY

Category: *Harbor & Waterfront*

Project Manager: *Lisa Savage*

Project Description

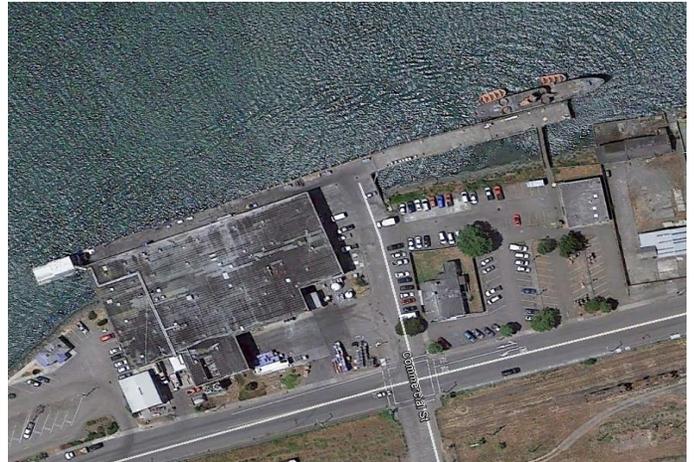
Replace fueling terminal dispensers and dispenser sumps. Replace underground tanks with above ground tanks. Clean up contaminated soil around underground storage tanks.

Project Location

Foot of Commercial Street

Justification

The fuel facility is the only commercial fueling facility for boats on Humboldt Bay and was built in 1972. Many components have reached the end of their useful life and need replacement.



Foot of Commercial Street

City Council Priority and Goals

Meets Strategic Plan 2020 goals of an alive waterfront and business investment.

Studies and Reports

Construction Drawings, Plans, and Specifications by SHN in 2005

Construction Drawings, Plans, and Specifications by SHN for Conveyance Piping Replacement in 2009

Comments

It may benefit the City to remove the four 10,000 gallon underground tanks and replace them with one 1,000-gallon gas tank and two 10,000-gallon diesel above ground tanks.

Prior Appropriations

1995-2011: \$197,000 | FY 2004/05: \$60,000 | FY 2008/29: \$12,300 | FY 2009/10: \$353,000

Fiscal Impact

The estimated cost to replace the dispensers and sumps is \$121,000. The estimated cost for tank removal and cleanup is \$556,000, and to install above ground fueling tanks is \$305,000. Approximately \$276,000 is reimbursable by the state. Engineering is estimate to be approximately \$200,000 (2016 dollars). Total cost: Approximately \$1,200,000.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|--------------|----------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | \$224 | | \$224 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | \$1,120 | \$1,120 |
| Expenditure Totals | \$0 | \$0 | \$0 | \$224 | \$1,120 | \$1,344 |
| Harbor Fund | | | | \$224 | | \$224 |
| State Grant | | | | | \$300 | \$300 |
| Other | | | | | \$820 | \$820 |
| Funding Totals | \$0 | \$0 | \$0 | \$224 | \$1,120 | \$1,344 |

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Fishermen's Terminal Building

LAND & FACILITIES

Capital Improvement Program 2016/17
FIVE YEAR SUMMARY



LAND & FACILITIES

| Page # | Project Name | (Thousands of Dollars) | | | | | |
|--------------|---|------------------------|---------------|---------------|---------------|---------------|-------------|
| | | Total Project Cost | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| | | 2016 Dollars | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 |
| PG. 2-3 | CORPORATION YARD FENCING AND GATES | \$ 50 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| PG. 2-4 | CORPORATION YARD BUILDING IMPROVEMENTS | \$ 350 | \$ - | \$ 52 | \$ 159 | \$ 164 | \$ - |
| PG. 2-5 | CORPORATION YARD SETTLING BASIN | \$ 200 | \$ - | \$ - | \$ 212 | \$ - | \$ - |
| PG 2-6 | ADORNI ROOF MAINTENANCE | \$ 100 | \$ - | \$ 103 | \$ - | \$ - | \$ - |
| PG 2-7 | MUNICIPAL AUDITORIUM IMPROVEMENTS | \$ 150 | \$ 55 | \$ 52 | \$ 48 | \$ - | \$ - |
| PG 2-8 | CITY FACILITY ADA UPGRADES | \$ 30 | \$ 30 | \$ - | \$ - | \$ - | \$ - |
| PG 2-9 | CITY HALL IMPROVEMENTS | \$ 552 | \$ 32 | \$ 21 | \$ 530 | \$ - | \$ - |
| PG 2-10 | SEDIMENTATION BASIN REPURPOSING | \$ 25 | \$ 25 | \$ - | \$ - | \$ - | \$ - |
| PG 2-11 | EUREKA POLICE STATION CHILLER | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| PG 2-12 | STREAM RESTORATION/ FISH PASSAGE | \$ 66 | \$ - | \$ 66 | \$ - | \$ - | \$ - |
| TOTAL | | \$ 850 | \$ 105 | \$ 207 | \$ 419 | \$ 164 | \$ - |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



CORPORATION YARD FENCING AND GATES

Category: *Land & Facilities*

Project Manager: *Brian Issa*

Project Description

Change the gage and spacing of the cyclone fencing and install an additional top wire deterrent.

Project Location

City of Eureka Corporation Yard

Justification

The deterioration of existing fencing has allowed the perimeter and interior of the yard to be compromised.



City of Eureka Corporation Yard

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a financially sound city providing effective services and a more liveable community.

Studies and Reports

None

Comments

Project is designed to improve security and ensure accessibility of the City Corporation Yard. A large majority of the city heavy equipment and vehicles for all maintenance departments are stored in the yard, which needs to be secured. The security of this yard is to protect City assets and ensure that all vehicles and equipment is available when needed. Also, the public safety departments, such as Fire and Police, utilize this area for storage of equipment that needs to be secure and accessible.

Prior Appropriations

None

Fiscal Impact

Total Project Cost \$50,000 (2016 dollars) plus 3% inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------------------|------------------------|------------|------------|------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$50 | | | | | \$50 |
| Expenditure Totals | \$50 | \$0 | \$0 | \$0 | \$0 | \$50 |
| Water, Sewer and Equipment Operations | \$50 | | | | | \$50 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$50 | \$0 | \$0 | \$0 | \$0 | \$50 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



CORPORATION YARD BUILDING IMPROVEMENTS

Category: *Land & Facilities*

Project Manager: *Brian Issa*

Project Description

Construction of new office space, break/locker room and additional storage. This will also require a revision of the Corporation Yard Master Plan.

Project Location

City of Eureka Corporation Yard

Justification

The existing buildings are substandard and inadequate and require demolition and replacement to improve operations and efficiency.



City of Eureka Corporation Yard

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a financially sound city providing effective services and a more liveable community.

Studies and Reports

None

Comments

Proposed improvements include approximately 1,200 SF of new office space, employee lounge, restrooms, showers and lockers.

Prior Appropriations

FY 2007/08: \$107,875 | FY 2008/09: \$65,095

Fiscal Impact

Total Project Cost: \$350,000 (2016 dollars) plus 3% inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--|------------------------|-------------|--------------|--------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | \$52 | | | | \$52 |
| Professional Services | | | | | | \$0 |
| Construction | | | \$159 | \$164 | | \$323 |
| Expenditure Totals | \$0 | \$52 | \$159 | \$164 | \$0 | \$375 |
| Water, Sewer, General Fund and Equip. Ops. | | \$52 | \$159 | \$164 | | \$375 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$52 | \$159 | \$164 | \$0 | \$375 |



CORPORATION YARD SETTLING BASINS

Category: *Land & Facilities*

Project Manager: *Brian Issa*

Project Description

Construct concrete settling that discharges to the sanitary sewer system. This basin will be constructed at the corporation yard and used to store spoils from city maintenance projects.

Project Location

City of Eureka Corporation Yard

Justification

Adequate storage of spoils from water/wastewater crews at the corp yard is needed to avoid any potential offsite runoff.



City of Eureka Corporation Yard

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a financially sound city providing effective services and a more liveable community.

Studies and Reports

A preliminary design and bid package has been prepared by LACO

Comments

The water and sewer crews regularly excavate and remove spoils. The crews need a continuous and functional facility to dump and store the spoils that is covered and able to discharge to the sanitary sewer. The original design will be reviewed and altered to the needs and restraints of the corporation yard and City crews.

Prior Appropriations

Not Available

Fiscal Impact

Total Project Cost: \$200,000 (2016 dollars)

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------------------|------------------------|------------|--------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | \$212 | | | \$212 |
| Expenditure Totals | \$0 | \$0 | \$212 | \$0 | \$0 | \$212 |
| Water, Sewer and Equipment Operations | | | \$212 | | | \$212 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$212 | \$0 | \$0 | \$212 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



ADORNI ROOF MAINTENANCE

Category: *Land & Facilities*

Project Manager: *Miles Slattery*

Project Description

Replace roofing at Adorni Center.



Adorni Center

Project Location

Adorni Center

Justification

The existing roof is failing and continues to be an ongoing maintenance issue.

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a more liveable Eureka community and alive Old Town and downtown. Also meets 2030 vision of 'Development of Community Events'.

Studies and Reports

None

Comments

The shingled roof at the Adorni Center is not appropriate for the coastal building and needs to be replaced with a metal roof that is more resilient to weather, birds, and other conditions at the site. This project may be phased, but doing so would significantly increase the overall cost.

Prior Appropriations

Not Available.

Fiscal Impact

Total Project cost: \$100,000 (2016 dollars) plus 3% inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|--------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | \$103 | | | | \$103 |
| Expenditure Totals | \$0 | \$103 | \$0 | \$0 | \$0 | \$103 |
| Facility Operations | | \$103 | | | | \$103 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$103 | \$0 | \$0 | \$0 | \$103 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



MUNICIPAL AUDITORIUM IMPROVEMENTS

Category: *Land & Facilities*

Project Manager: *Miles Slattery*

Project Description

Paint exterior of building. Replace doors and roll up doors with compliant units.

Project Location

Eureka Municipal Auditorium

Justification

The exterior of the Auditorium is overdue for painting to preserve the 80-year-old facility. The door frames and sets are outdated and need fire compliant hardware including a new roll-up door.



Eureka Municipal Auditorium

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable Eureka community. Also meets 2030 vision of 'Development of Community Events'.

Studies and Reports

None

Comments

Prior Appropriations

Not Available

Fiscal Impact

The estimated cost of painting the exterior is \$140,000. The estimated cost of door replacement is \$10,000.

(2016 dollars) plus 3% inflation annually

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------------------|------------------------|-------------|-------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$55 | \$52 | \$48 | | | \$155 |
| Expenditure Totals | \$55 | \$52 | \$48 | \$0 | \$0 | \$155 |
| Municipal Auditorium Improvement Fund | \$10 | | | | | \$10 |
| Facility Operations | \$45 | \$52 | \$48 | | | \$145 |
| | | | | | | \$0 |
| Funding Totals | \$55 | \$52 | \$48 | \$0 | \$0 | \$155 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



CITY FACILITY ADA UPGRADES

Category: *Land & Facilities*

Project Manager: *Brian Gerving*

Project Description

Elimination of barriers to provide access to City facilities and programs for persons with disabilities. A new study needs to be conducted to review new requirements and identify the needs of City facilities with regards to ADA compliance.

Project Location

Justification

The City of Eureka needs to identify and remedy all barriers to ADA access at City facilities. The regulations for ADA change over time and the City needs to continuously evaluate and take action on compliance issues.



City Council Priority and Goals

Meets Strategic Plan 2020 goals of a more liveable Eureka community and providing effective services.

Studies and Reports

City of Eureka Accessibility Study, November 1992 | Transition Plan Report by Equal Access, September 2002
Self-Evaluation Report by Bruckner Disability Consultants, September 1992

Comments

In 2002 the City completed a comprehensive update of our ADA Self-Evaluation and Transition Plan pursuant to the Americans with Disabilities Act. The results of this updated analysis identified areas where compliance with the ADA requirements has yet to be achieved. Since the last study, ADA requirements have changed and a new study will need to review the updated requirements and investigate gaps in City facilities.

Prior Appropriations

City Projects incorporate improvements to provide access to those with disabilities

Fiscal Impact

The estimated cost for a study to assess ADA compliance is \$30,000 plus 3% inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | \$30 | | | | | \$30 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$30 | \$0 | \$0 | \$0 | \$0 | \$30 |
| General Fund | \$30 | | | | | \$30 |
| Facilities Operations | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$30 | \$0 | \$0 | \$0 | \$0 | \$30 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



CITY HALL IMPROVEMENTS

Category: *Land & Facilities*

Project Manager: *Miles Slattery*

Project Description

Seal and paint the interior walls of both stairwells, excluding existing murals. Complete recarpeting of 2nd and 3rd floors.

Project Location

Eureka City Hall

Justification

City Hall is the hub for several critical services and operations of the City. The regular maintenance of painting, carpeting, windows, etc is necessary to sustain the functionality an aesthetics of the building.



Eureka City Hall

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a more liveable Eureka community and providing effective services.

Studies and Reports

None

Comments

Prior Appropriations

Not Available

Fiscal Impact

Seal and Paint stairwells: \$12,000

Recarpet portions of 2nd and 3rd floors: \$40,000 (Split between two years allocating \$20,000 to each floor)

The outdated windows need to be either replaced or retinted. This will be an expensive project and may need grant funding assistance, estimated at \$500,000 (2016 dollars) plus 3% inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|--------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$32 | \$21 | \$530 | | | \$583 |
| Expenditure Totals | \$32 | \$21 | \$530 | \$0 | \$0 | \$583 |
| Facility Operations | \$32 | \$21 | \$530 | | | \$583 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$32 | \$21 | \$530 | \$0 | \$0 | \$583 |



SEDIMENTATION BASIN REPURPOSING

Category: *Land & Facilities*

Project Manager: *Brian Gerving*

Project Description

Explore potential reuse of out-of-service sedimentation tanks at the water treatment plant.

Project Location

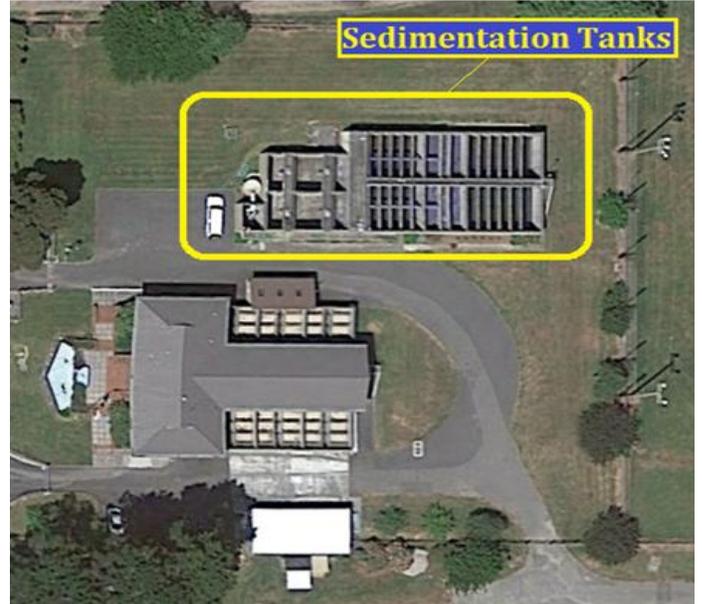
Eureka Water Treatment Plant at 3575 W Street

Justification

Cost/benefit of repurposing sedimentation tanks may outweigh that of demolition and removal.

City Council Priority and Goals

Meets Strategic Plan 2020 goals of supporting a financially sound city providing effective services.



Defunct Sedimentation Tank

Studies and Reports

None

Comments

The defunct sedimentation tanks at the City's water treatment plant located at 3575 W St may be useful in a different capacity.

Prior Appropriations

None

Fiscal Impact

The estimated budget for a repurposing study is roughly \$25,000 and is directed at identifying an effective reuse plan including construction and design considerations. (2016 dollars plus 3% inflation annually)

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | \$25 | | | | | \$25 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$25 | \$0 | \$0 | \$0 | \$0 | \$25 |
| Facility Operations | \$25 | | | | | \$25 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$25 | \$0 | \$0 | \$0 | \$0 | \$25 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



EUREKA POLICE STATION CHILLER

Category: *Land & Facilities*

Project Manager: *Miles Slattery*

Project Description

Installation of a new chiller unit at the Eureka Police Department

Project Location

Eureka Police Department

Justification

The existing chiller unit for the facility at 604 C Street is in disrepair. A new unit is required to maintain the air quality and comfort of EPD officers and staff.



City Council Priority and Goals

Meets Strategic Plan 2020 goal of providing effective services and a more liveable and safe community.

Studies and Reports

None

Comments

The replacement of thermostats and electrical controls is underway. If this measure solves the issue, a new chiller unit may not be necessary.

Prior Appropriations

Not Available

Fiscal Impact

Project cost: \$200,000, long term project, if necessar (2016 dollars) plus 3% inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|-------------------------------|------------------------|------------|------------|------------|------------|------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Facility Operations Acct: 650 | | | | | | \$0 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



STREAM RESTORATION/FISH PASSAGE

Category: *Land & Facilities*

Project Manager: *Miles Slattery*

Project Description

Remove culverts that currently act as barriers for fish passage with fish-friendly culverts, re-establish stream sinuosity, add large wood debris, remove non-native invasive plant species, and re-vegetate with native species. Recommendations for habitat improvement activities are based upon target habitat values suitable for salmonids in California's North Coast streams.



Project Location

Cooper Gulch Creek

Justification

Urbanization has deteriorated local stream habitat and contributed to the decline of local fish populations.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a more liveable and clean community.

Studies and Reports

Department of Fish & Wildlife - Cooper Gulch Stream Inventory Report

Comments

Work with regulatory agencies to develop a plan for restoration and fish passage enhancements for Cooper Gulch Creek at the Myrtle Avenue crossing and below.

Prior Appropriations

None

Fiscal Impact

The total cost of the project is estimated to be \$66,000 (2016 dollars) plus 3% inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-----------------|------------|------------|------------|-----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | \$66,000 | | | | \$66,000 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$0 | \$66,000 | \$0 | \$0 | \$0 | \$66,000 |
| Water Reserves | | | | | | \$0 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |



Ross and Hammond Parks

PARKS & RECREATION

**Capital Improvement Program 2016/17
FIVE YEAR SUMMARY**



PARKS & RECREATION

| Page # | Project Name | (Thousands of Dollars) | | | | | |
|--------------|---|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | Total Project Cost | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| | | 2016 Dollars | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 |
| PG. 3-3 | AUTOMATED IRRIGATION | \$ 250 | \$ 10 | \$ 10 | \$ 11 | \$ 11 | \$ 11 |
| PG. 3-4 | PARK IMPROVEMENTS | \$ 750 | \$ 150 | \$ 155 | \$ 160 | \$ 165 | \$ 170 |
| PG. 3-5 | ZOO MASTER PLAN IMPROVEMENTS | \$ 10,000 | \$ 1,000 | \$ 1,030 | \$ 1,060 | \$ 1,090 | \$ 1,120 |
| PG 3-6 | CITY WIDE TRAIL IMPROVEMENTS | \$ 2,500 | \$ 500 | \$ 516 | \$ 530 | \$ 544 | \$ 560 |
| PG 3-7 | ZOO IMPROVEMENTS PAVILION | \$ 50 | \$ 10 | \$ 10 | \$ 11 | \$ 11 | \$ 11 |
| PG 3-8 | ZOO IMPROVEMENTS AVIARY MESH REPLACEMENT | \$ 20 | \$ 20 | \$ - | \$ - | \$ - | \$ - |
| PG 3-9 | SOFTBALL FIELD IMPROVEMENTS | \$ 50 | \$ 10 | \$ 10 | \$ 11 | \$ 11 | \$ 11 |
| PG 3-10 | EUREKA DOG PARK | \$ 350 | \$ 75 | \$ 77 | \$ 80 | \$ 82 | \$ 78 |
| PG 3-11 | DEL NORTE STREET RESTROOMS | \$ 100 | \$ 100 | \$ - | \$ - | \$ - | \$ - |
| TOTAL | | \$ 13,550 | \$ 1,670 | \$ 1,721 | \$ 1,772 | \$ 1,821 | \$ 1,872 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



CITY PARKS AUTOMATED IRRIGATION

Category: *Parks & Recreation*

Project Manager: *Miles Slattery*

Project Description

Install automated irrigation at all City parks

Project Location

All Parks Owned by City

Justification

Automated irrigation at City parks would save money in staff time and allow for easier lanscape maintenance.



Irrigation System

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable community and 2030 High Priority of all purpose sports fields.

Studies and Reports

None

Comments

Seven parks have been identified as having the potential to benefit from automated irrigation:

Hammond (\$19K) | Highland (\$34K) | Ross (\$40) | 20/30 (\$48K) | Kennedy/Hartman (\$40K)
Cooper (\$40K) | Carson (\$30K)

Prior Appropriations

None

Fiscal Impact

Total project cost: \$250,000 (2016 dollars). Set aside \$10,000 per year to put towards irrigation improvements, plus 3% for inflation.

Hammond (\$19K) | Highland (\$34K) | Ross (\$40) | 20/30 (\$48K) | Kennedy/Hartman (\$40K)
Cooper (\$40K) | Carson (\$30K)

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| Expenditure Totals | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| General Fund | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



PARK IMPROVEMENTS

Category: *Parks & Recreation*

Project Manager: *Miles Slattery*

Project Description

Add "pour-in-place" rubber at all playgrounds. Fencing upgrades at Sequoia Park Zoo. Resurfacing of basketball and tennis courts. Upgrade lighting.

Project Location

City Parks

Justification

The ongoing reinvestment in public parks promotes safe recreation, effective maintenance, and



Hammond Park

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable community.

Studies and Reports

None

Comments

Prior Appropriations

None

Fiscal Impact

Total cost \$750,000 (2016 dollars). Set aside \$150,000 plus 3% for inflation per year for improvement projects.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$150 | \$155 | \$160 | \$165 | \$170 | \$800 |
| Expenditure Totals | \$150 | \$155 | \$160 | \$165 | \$170 | \$800 |
| Grant | \$150 | \$155 | \$160 | \$165 | \$170 | \$800 |
| General Fund | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$150 | \$155 | \$160 | \$165 | \$170 | \$800 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



ZOO MASTER PLAN IMPROVEMENTS

Category: *Parks & Recreation*

Project Manager: *Gretchen Ziegler*

Project Description

Next phases for the Master Plan implementation will include exhibits within the Native Predators zone including spotted owl, raven, black bear, cougar, bobcat, fisher, coyote, and a Redwood Canopy Walk.

Project Location

Sequoia Park Zoo

Justification

New exhibits and educational facilities will improve the aesthetic and functional aspects of the zoo, and are needed to maintain accreditation with the Association of Zoos and Aquariums.



Zoo Master Plan

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable community. Also a part of the Top Priority 2030 vision of assessing opportunities for revenue generation.

Studies and Reports

2006: 20-Year Zoo Facility Master Plan

Comments

The zoo serves as an educational, recreational and cultural resource for not only the City of Eureka, but also communities throughout the region.

Prior Appropriations

FY 2014/15: \$3,300,000

Fiscal Impact

Total project cost:\$10,000,000 (2016 dollars). Set aside 1,000,000 plus 3% for inflation per year for improvements and design.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$1,000 | \$1,030 | \$1,060 | \$1,090 | \$1,120 | \$5,300 |
| Expenditure Totals | \$1,000 | \$1,030 | \$1,060 | \$1,090 | \$1,120 | \$5,300 |
| Grant and/or Donations | \$1,000 | \$1,030 | \$1,060 | \$1,090 | \$1,120 | \$5,300 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$1,000 | \$1,030 | \$1,060 | \$1,090 | \$1,120 | \$5,300 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



CITY WIDE TRAIL IMPROVEMENTS

Category: *Parks & Recreation*

Project Manager: *Miles Slattery*

Project Description

Construct trails adjacent to Humboldt Bay and along greenways through the City of Eureka for multi-use recreation.

Project Location

Citywide

Justification

The development of a trail system provides recreational opportunities for pedestrians, bicyclists, and equestrians. Trails also provide coastal access for canoes and kayaks.



Elk River Loop Trail

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable community and is identified as a Top Priority in the 2030 vision.

Studies and Reports

Eureka Waterfront Trail and Promenade Recommendations | Humboldt Coastal Trails Implementation Strategy

Comments

Prior Appropriations

Not Available

Fiscal Impact

Pursue \$500,000 (2016 dollars) in funding per year for City wide Trail improvements.

Approve \$50,000 for design and \$450,000 for construction. Add 3% for inflation per year.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|--------------|--------------|--------------|--------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$50 | \$52 | \$53 | \$55 | \$56 | \$266 |
| Professional Services | | | | | | \$0 |
| Construction | \$450 | \$464 | \$477 | \$491 | \$504 | \$2,386 |
| Expenditure Totals | \$500 | \$516 | \$530 | \$546 | \$560 | \$2,652 |
| Grant | \$500 | \$516 | \$530 | \$546 | \$560 | \$2,652 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$500 | \$516 | \$530 | \$546 | \$560 | \$2,652 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



ZOO IMPROVEMENTS: ENTRY PAVILION

Category: *Parks & Recreation*

Project Manager: *Miles Slattery*

Project Description

Replace and repair the failing entry pavilion construction that needs flashing on all beams and columns. Re-install/repair trim moulding. Add several coats of waterproof sealant and/or stain

Project Location

Sequoia Park Zoo

Justification

The original installation lacked appropriate flashing and waterproofing. Without the proper maintenance this structure will face significant and expensive failures.



Zoo Pavilion

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable community.

Studies and Reports

None

Comments

Prior Appropriations

Not Available

Fiscal Impact

Total project cost: \$50,000 (2016 dollars). Set aside \$10,000 plus 3% for inflation per year for improvements.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| Expenditure Totals | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| Grant and/or Donations | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



ZOO IMPROVEMENTS: AVIARY MESH REPLACEMENTS

Category: *Parks & Recreation*

Project Manager: *Gretchen Ziegler*

Project Description

The Nancy Hilfiker Aviary opened at Sequoia Park Zoo in 1993 as a gift to the community with a generous donation from the Hilfiker family. It remains one of the most popular and significant exhibit experiences at the Zoo.

Project Location

Sequoia Park Zoo

Justification

Aviary walk-through exhibit repair and maintenance is required due to aging and deterioration of wire mesh enclosure material. Mesh failure incidents have compromised safety of bird collection.



Nancy Hilfiker Aviary Entrance

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable community.

Studies and Reports

None

Comments

Prior Appropriations

FY 2012/13 - \$25,000

Fiscal Impact

Total project cost: \$20,000 (2016 dollars) plus 3% per year inflation.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$20 | | | | | \$20 |
| Expenditure Totals | \$20 | \$0 | \$0 | \$0 | \$0 | \$20 |
| Grant and/or Donations | \$20 | | | | | \$20 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$20 | \$0 | \$0 | \$0 | \$0 | \$20 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



SOFTBALL FIELD IMPROVEMENTS

Category: *Parks & Recreation*

Project Manager: *Miles Slattery*

Project Description

Turf improvements, temporary home-run fences, and improvements to bleachers and dugouts.

Project Location

Hartman, Kennedy and Cooper Gulch fields

Justification

Maintenance and upgrades of softball fields ensure the availability of the popular recreational softball leagues.



City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable Eureka community and is identified as a High Priority in the 2030 vision of All Purpose Sports Fields.

Studies and Reports

None

Comments

Estimated softball league revenue is \$5,000/year

Prior Appropriations

Not Available

Fiscal Impact

Total project cost: \$50,000 (2016 dollars). Set aside \$10,000 plus 3% for inflation per year for improvements.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| Expenditure Totals | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |
| Softball League Revenues | \$5 | \$5 | \$5 | \$5 | \$5 | \$25 |
| Other | \$5 | \$5 | \$6 | \$6 | \$6 | \$28 |
| | | | | | | \$0 |
| Funding Totals | \$10 | \$10 | \$11 | \$11 | \$11 | \$53 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



EUREKA DOG PARK

Category: *Parks & Recreation*

Project Manager: *Miles Slattery*

Project Description

Complete the final phases of the Eureka Dog Park including restrooms, storage, parking lot paving, and a perimeter trail.

Project Location

North of 23rd St behind General Hospital Complex

Justification

The Eureka Dog Park is now open and providing the public with an open, dog-friendly area. The last few improvements remaining will further improve the functionality and experience of the park.

City Council Priority and Goals

Mees Strategic Plan 2020 goal of a more liveable Eureka Community.

Studies and Reports

Not Available



Eureka Dog Park Site Plan

Comments

Grading, gates, fencing, partial parking and drainage improvements have been complete. The top priority for the second phase will be installing a public restroom.

Prior Appropriations

FY 2014/15: Donations

Fiscal Impact

Total Project Cost \$350,000 (2016 dollars). Set aside \$75,000 plus 3% for inflation per year for improvements.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|-------------|-------------|-------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$75 | \$77 | \$80 | \$82 | \$78 | \$392 |
| Expenditure Totals | \$75 | \$77 | \$80 | \$82 | \$78 | \$392 |
| Donations | \$75 | \$77 | \$80 | \$82 | \$78 | \$392 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$75 | \$77 | \$80 | \$82 | \$78 | \$392 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



DEL NORTE STREET RESTROOMS

Category: *Parks & Recreation*

Project Manager: *Miles Slattery*

Project Description

Construct restroom facility at the foot of Del Norte Street to service the enhanced PALCO Marsh recreational area and the Del Norte Street Public Fishing Pier.

Project Location

West Del Norte Street

Justification

Increased public presence has increased the need for public restrooms in this area. Environmental concerns may also be an issue if this is not addressed.



West Del Norte Street

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a more liveable Eureka community and an alive waterfront.

Studies and Reports

Not Available

Comments

The enhanced PALCO Marsh and the Del Norte Street Pier generate elevated public use in the area. Water, Wastewater and electrical services have been extended to the site.

Prior Appropriations

None

Fiscal Impact

Total project cost: \$100,000 (2016 dollars).

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|----------|----------|----------|----------|------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | 0 |
| Design | | | | | | 0 |
| Professional Services | | | | | | 0 |
| Construction | 100 | | | | | 100 |
| Expenditure Totals | 100 | 0 | 0 | 0 | 0 | 100 |
| Grant | 100 | | | | | 100 |
| | | | | | | 0 |
| | | | | | | 0 |
| Funding Totals | 100 | 0 | 0 | 0 | 0 | 100 |

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STREETS & STORM DRAINS

Capital Improvement Program 2016/17
FIVE YEAR SUMMARY



STREETS & STORM DRAINS

| Page # | Project Name | (Thousands of Dollars) | | | | | |
|--------------|--|------------------------|-----------------|---------------|-----------------|---------------|---------------|
| | | Total Project Cost | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| | | 2016 Dollars | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 |
| PG. 4-3 | STREE RECONSTRUCTION, OVERLAYS, AND MAINTENANCE | \$ 14,000 | \$ 250 | \$ 250 | \$ 250 | \$ 250 | \$ 250 |
| PG. 4-4 | SAFETY IMPROVEMENT PROJECTS | \$ 785 | \$ 575 | \$ 41 | \$ - | \$ - | \$ - |
| PG. 4-5 | STORM DRAIN IMPROVEMENTS | \$ 1,900 | \$ 200 | \$ - | \$ 1,802 | \$ - | \$ - |
| PG 4-7 | BICYCLE FACILITIES | \$ 175 | \$ 175 | \$ - | \$ - | \$ - | \$ - |
| PG 4-8 | SIDEWALK REPAIR IMPROVEMENTS | \$ 250 | \$ 50 | \$ 52 | \$ 53 | \$ 55 | \$ 56 |
| PG 4-9 | PARKING METER INSTALLATION PHASE II | \$ 300 | \$ 120 | \$ 62 | \$ 64 | \$ 66 | \$ - |
| PG 4-10 | WATERFRONT DRIVE CONNECTION FROM G TO J | \$ 2,939 | \$ - | \$ - | \$ - | \$ - | \$ 2,939 |
| PG 4-XX | 4TH ST. UNDERGROUND DISTRICT | \$ 100 | \$ - | \$ 100 | \$ - | \$ - | \$ - |
| TOTAL | | \$ 17,110 | \$ 1,250 | \$ 343 | \$ 2,105 | \$ 305 | \$ 306 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



STREET RECONSTRUCTION, OVERLAYS & MAINTENANCE

Category: *Streets & Storm Drains*

Project Manager: *Scott Ellsmore*

Project Description

Slurry seal, overlay, or reconstruct streets.

Project Location

Citywide

Justification

Use annually allocated funds to maintain streets at current service levels.



Paving Project

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a financially sound City providing effective services and a more liveable Eureka community. Also is identified as a High Priority of the 2030 vision.

Studies and Reports

Pavement Management Report 2009 | StreetSaver Pavement Management Report 2010

Comments

Prior Appropriations

FY 2013/14: \$200,000 | FY 2014/15: \$215,839 | FY 2015/16: \$250,000

Fiscal Impact

| | | | |
|-------------------------------------|-----------|-----------------------------|-----------|
| Hawthorne St (Broadway to Felt) | \$120,000 | 2nd St ("W" to "Y") | N/A |
| Felt St (Hawthorne to Del Norte) | \$40,000 | Henderson St | N/A |
| 14th St ("M" to West Ave) | \$240,000 | 6th & 7th Streets | \$400,000 |
| Highland Ave (Broadway to Utah) | \$200,000 | O,P, Q, Myrtle, 4th Streets | N/A |
| Koster St (Del Norte to Washington | \$200,000 | Fairway & Campton | \$500,000 |
| H St (Harris to Oak) | \$900,000 | | |

An annual budget of \$2.8M would be required to maintain the current pavement condition.

Total Project Cost: \$14,000,000 (2016 dollars) plus 3% annually for inflation. Funded by gas tax.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|--------------|--------------|--------------|--------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$500 | \$250 | \$250 | \$250 | \$250 | \$1,500 |
| Expenditure Totals | \$500 | \$250 | \$250 | \$250 | \$250 | \$1,500 |
| HUTA (Gas Tax) | \$250 | \$250 | \$250 | \$250 | \$250 | \$1,250 |
| Measure O | \$250 | | | | | \$250 |
| | | | | | | \$0 |
| Funding Totals | \$500 | \$250 | \$250 | \$250 | \$250 | \$1,500 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



SAFETY IMPROVEMENT PROJECTS

Category: *Streets & Storm Drains*

Project Manager: *Scott Ellsmore*

Project Description

Construct, add or install safety improvements at various locations throughout the City.

Project Location

Citywide

Justification

Safety improvements to provide clearer directions, protect lives and reduce congestion.



Pedestrian Safety Signage

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a more liveable Eureka community and providing effective services.

Studies and Reports

- Traffic Safety Evaluation, ITS Berkeley (2010)
- Pedestrian Crossing Improvement Project Before/After Study (2009)

Comments

Prior Appropriations

- FY 2011/12: \$66,670 [Fairway Guard Rail] | FY 2011/12: \$800,000 [EVP Installation]
- FY 2011/12: \$306,000 [West Avenue Improvements]

Fiscal Impact

Total Cost: \$785,000 (206 dollars) plus 3% for inflation annually. Pursue grants for approximately \$500,000.

| | |
|--|-----------|
| 1. Pedestrian safety improvements at Harrison & Roane, Campton & Oak, Fairway near golf coars, Henderson & Central, and H & I Streets near EHS | \$130,000 |
| 2. Relocate pedestrian crossing at Myrtle & Harrison intersection to E/S | \$40,000 |
| 3. Bus pullouts (various locatinos, cost each) | \$40,000 |
| 4. Install open-graded friction course on Fairway Drive & Campton Road | \$500,000 |
| 5. Replace regulatory traffic signs | \$75,000 |

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$50 | | | | | \$50 |
| Professional Services | | | | | | \$0 |
| Construction | \$525 | \$41 | | | | \$566 |
| Expenditure Totals | \$575 | \$41 | \$0 | \$0 | \$0 | \$616 |
| HSIP | \$500 | | | | | \$500 |
| Sign Grant | \$75 | | | | | \$75 |
| Transit funds | | \$41 | | | | \$41 |
| Funding Totals | \$575 | \$41 | \$0 | \$0 | \$0 | \$616 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



STORM DRAIN IMPROVEMENTS

Category: *Streets & Storm Drains*

Project Manager: *Scott Ellsmore*

Project Description

Install, replace, repair, or relocate storm drainage facilities.

Project Location

Citywide

Justification

Facilities have reached end of useful life. New development in some areas have altered the drainage patterns.



Storm Drain Inlet

City Council Priority and Goals

Meets Strategic Plan 2020 goal of providing effective services. Also considered a part of the High Priority of 2030 vision of Street Improvement and Funding.

Studies and Reports

Eureka Storm Drain Master Plan 1996

Comments

See Table on Page 4-6 for a list of stormwater infrastructure projects that have been identified as needing upgrade, replacement or relocation.

Stormwater infrastructure in Eureka is outdated and deteriorating. Regulations for municipal stormwater systems have been continuously increasing and the City of Eureka must keep up with more stringent requirements while identifying new issues every wet season.

Prior Appropriations

Not Available

Fiscal Impact

Total project cost: \$1,900,000 (2016 dollars) plus 3% for inflation annually. Includes stormwater resource plan for \$200,000 to identify, in collaboration with Humboldt County.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|----------------|------------|------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | \$200 | | \$1,802 | | | \$2,002 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$200 | \$0 | \$1,802 | \$0 | \$0 | \$2,002 |
| Grant | \$180 | | \$1,802 | | | \$1,982 |
| Stormwater Funds | \$20 | | | | | \$20 |
| | | | | | | \$0 |
| Funding Totals | \$200 | \$0 | \$1,802 | \$0 | \$0 | \$2,002 |



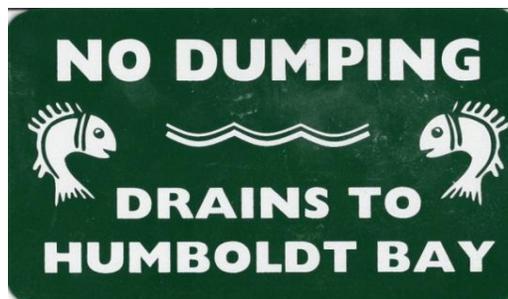
STORM DRAIN IMPROVEMENTS (CONTINUED)

Category: *Streets & Storm Drains* Project Manager: *Scott Ellsmore*



Identified Stormwater Infrastructure Projects

| | |
|---|-----------|
| Replace 18" CMP on G Street from 1 st manhole south of Wabash north to 17 th Street. | N/A |
| Install 18" SD, MHs and DIs from Buhne & "I" to Buhne & Williams 1800+-LF - Basin F | \$285,000 |
| Repair existing 24" concrete SD on Henderson between Broadway and Fairfield Basin D. | N/A |
| Install 12" SD Everding south 350+-LF on "F" Street (\$60,000) Basin M. | \$60,000 |
| Replace collapsing 24" SD under Buhne near "Q" St. by jacking and boring (\$290,000) Basin L. | \$290,000 |
| Replace SD at California and Church, William and Long (\$320,000) Basin F. | \$320,000 |
| Install 15" SD, MHs and DIs from 7th St. to 6th & "L" St. 330 -+ LF (\$45,000) Basin I. | \$45,000 |
| 15 th and California subsurface drainage study (\$35,000) Basin F. | \$35,000 |
| Relocate drainage facilities near Garland (\$370,000) Basin F. | \$370,000 |
| Install 24" SD 350+-LF "I" St. south of Hodgson (\$70,000) Basin E. | \$70,000 |
| Replace existing SD culvert under McFarlan St. south of Myrtle (\$105,000) Basin L. | \$105,000 |
| Culvert reconstruction - SE corner Myrtle and "O" Street | N/A |
| Culvert reconstruction SD collection box - SW corner 6 th and "F" Street | N/A |
| Replace/upsized SD - 1 st from SW corner 1 st & "D" St., and SW and SE corner 1 st & "E" Street, | N/A |
| Iowa bet. Highland & McCullens (new manhole & drain line to eliminate flooding) | N/A |
| Long & "M" pump (construct system at street level) | N/A |



Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



BICYCLE FACILITIES

Category: *Streets & Storm Drains*

Project Manager: *Scott Ellsmore*

Project Description

Install bicycle facilities throughout various areas in the City.

Project Location

Citywide

Justification

Increase cycling and provide safe routes and facilities



City Council Priority and Goals

Meets Strategic Plan 2020 goals of more liveable Eureka community and alive Old Town and Downtown.

Studies and Reports

Regional Bicycle Transportation Plan Update (HCAOG)

Comments

Prior Appropriations

None

Fiscal Impact

| | |
|--|------------------|
| 1. Replace existing bike lane marking with thermoplastic | \$105,000 |
| 2. Install Class II bike lanes on H St/Campton Road | \$20,000 |
| 3. Develop C Street Bike Boulevard | \$50,000 |
| Total | \$175,000 |

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$175 | | | | | \$175 |
| Expenditure Totals | \$175 | \$0 | \$0 | \$0 | \$0 | \$175 |
| Grant | \$175 | | | | | \$175 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$175 | \$0 | \$0 | \$0 | \$0 | \$175 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



SIDEWALK REPAIR IMPROVEMENTS

Category: *Streets & Storm Drains*

Project Manager: *Carolyn McKenna*

Project Description

Repair and reconstruct sidewalks throughout the City and provide for the 1911 Act Sidewalk Program.

Project Location

Citywide

Justification

Improvement of Americans with Disabilities Act (ADA) compliance providing citizen safety and access.



Sidewalk Construction/Repair

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a more liveable Eureka community.

Studies and Reports

None

Comments

Funds recovered from property owners are returned to this project fund for additional abatements.

Prior Appropriations

| | |
|------------|----------|
| FY 2011/12 | \$50,000 |
| FY 2012/13 | \$50,000 |
| FY 2013/14 | \$50,000 |
| FY 2014/15 | \$50,000 |
| FY 2015/16 | \$50,000 |

Fiscal Impact

The City allocates \$50,000 plus 3% inflation per year to sidewalk improvement/repair projects.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|-------------|-------------|-------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$50 | \$52 | \$53 | \$55 | \$56 | \$266 |
| Expenditure Totals | \$50 | \$52 | \$53 | \$55 | \$56 | \$266 |
| General Fund | \$50 | \$52 | \$53 | \$55 | \$56 | \$266 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$50 | \$52 | \$53 | \$55 | \$56 | \$266 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



PARKING METER INSTALLATION PHASE II

Category: *Streets & Storm Drains*

Project Manager: *Scott Ellsmore*

Project Description

Install parking meters in six (6) downtown/Old Town parking lots for this phase.



Project Location

Downtown/Old Town

Justification

More effectively manage parking and provide revenue for parking lot maintenance.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a financially sound City providing effective services. Also identified as a High Priority goal of Parking Standards.

Studies and Reports

Cost Analysis completed by Finance & Engineering Departments

Comments

Phase II recommended by Parking Place Commission, supported by Eureka Mainstreet, and approved by previous Eureka City Council.

The City plans to install meters at parking lots over the next four years.

Prior Appropriations

Phase I: \$110,000

Fiscal Impact

Project Total Cost: \$300,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|-------------|-------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$120 | \$62 | \$64 | \$66 | | \$312 |
| Expenditure Totals | \$120 | \$62 | \$64 | \$66 | \$0 | \$312 |
| Parking Fund | \$120 | \$62 | \$64 | \$66 | | \$312 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$120 | \$62 | \$64 | \$66 | \$0 | \$312 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WATERFRONT DRIVE CONNECTION FROM G TO J STREETS

Category: *Streets & Storm Drains*

Project Manager: *Scott Ellsmore*

Project Description

Complete design and construct Waterfront Drive Phase 2, G to J Streets. This will provide a continuous Waterfront Drive from Del Norte to T St.

Project Location

1st St from G to J

Justification

The section of roadway will connect Old Town and the City's northern waterfront resources with vehicular, pedestrian, bicycle and transit access.



Waterfront Drive Connection from I Street

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a more liveable Eureka community and alive Old Town.

Studies and Reports

Waterfront Drive Connection Phase 2 Project Study Report | Waterfront Drive Facilities Plan
Waterfront Revitalization Plan | Eureka General Plan

Comments

This phase would complete the final link with Phase 1 which was completed in conjunction with the Humboldt Bay Aquatic Center. The contaminated soils within the Railroad property road alignment were substantially cleaned up in the summer of 2012, and finally completed in 2013. Since completion of cleanup, design has been completed and the Right of Way is in progress with a Transportation Enhancement Grant that fully funded environmental review and design, but not right-of-way purchase or construction.

Prior Appropriations

2015 Deisn and Right-of-Way: \$279,000

Fiscal Impact

Total Project Cost: \$2,939,000, (2016 dollars).

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|----------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | \$2,939 | \$2,939 |
| Expenditure Totals | \$0 | \$0 | \$0 | \$0 | \$2,939 | \$2,939 |
| Grant | | | | | \$100 | \$100 |
| General Fund | | | | | | \$0 |
| Measure O | | | | | \$250 | \$250 |
| Funding Totals | \$0 | \$0 | \$0 | \$0 | \$350 | \$350 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



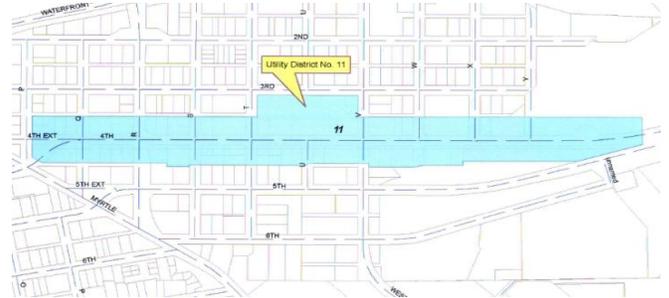
4TH STREET UNDERGROUND DISTRICT

Category: *Streets & Storm Drains*

Project Manager: *Jesse Willor*

Project Description

Underground District 11 will be a section of 4th Street in which overhead utilities are



Underground Project Boundaries

Project Location

4th Street from P Street to beyond Y Street

Justification

The undergrounding of utilities makes for a more visually appealing corridor along 4th Street.

City Council Priority and Goals

Meets Strategic Plan 2020 of a more liveable Eureka community.

Studies and Reports

None

Comments

The Rule 20A Program is an offering PG&E where they put aside funding credits for undergrounding projects.

Prior Appropriations

None

Fiscal Impact

Rule 20A funds will be used to underground existing utilities, design, and construction management by PG&E.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|--------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | \$100 | | | | \$100 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$0 | \$100 | \$0 | \$0 | \$0 | \$100 |
| Rule 20A Funds | | \$100 | | | | \$100 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$100 | \$0 | \$0 | \$0 | \$100 |

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WATER SUPPLY FACILITIES

Capital Improvement Program 2016/17
FIVE YEAR SUMMARY



WATER SUPPLY

| Page # | Project Name | (Thousands of Dollars) | | | | | |
|--------------|---|------------------------|-----------------|---------------|---------------|---------------|---------------|
| | | Total Project Cost | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| | | 2016 Dollars | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 |
| PG. 5-3 | MAD RIVER WATER TRANSMISSION PIPELINE PROJECT | \$ 3,000 | \$ 3,000 | \$ - | \$ - | \$ - | \$ - |
| PG. 5-6 | WATER DIST'N SYSTEM ANNUAL MAINTENANCE & REPAIR | \$ 2,420 | \$ 420 | \$ 515 | \$ 530 | \$ 545 | \$ 560 |
| PG. 5-8 | RESERVOIR MAINTENANCE & SECURITY PROGRAM | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| PG 5-9 | LUNDBAR HILLS BOOSTER PUMP STATION REHABILITATION | \$ 250 | \$ 50 | \$ 206 | \$ - | \$ - | \$ - |
| PG 5-10 | HIGH TANK PUMP STATION REPLACEMENT | \$ 360 | \$ - | \$ - | \$ 66 | \$ 360 | \$ - |
| PG 5-11 | CORROSION CONTROL WATER STORAGE TANKS | \$ 75 | \$ 11 | \$ 66 | \$ - | \$ - | \$ - |
| PG 5-12 | WATER IMPROVEMENT PROJECTS 2016 | \$ 420 | \$ 420 | \$ - | \$ - | \$ - | \$ - |
| PG 5-13 | CALIFORNIA REDWOOD COMPANY WATER CONNECTION | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOTAL | | \$ 6,030 | \$ 3,470 | \$ 721 | \$ 596 | \$ 905 | \$ 560 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



MAD RIVER WATER TRANSMISSION PIPELINE PROJECT

Category: *Water Supply*

Project Manager: *Jesse Willor, Brian Gerving*

Project Description

Multi-phase project designed to replace the entire Mad River Pipeline from origin in Arcata to the reservoir on Dolbeer Street. Phase 6 will be implemented in 2015/16 and completed in 2016/17.

Project Location

Harris and Hubbard Streets to the Reservoir

Justification

Existing pipeline was installed in the 1930's and the City has worked diligently since 1999 to replace the line and thereby maintain the reliability and capacity of its water supply system.



Mad River Pipeline Phase 5

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a financially sound City providing effective services.

Studies and Reports

Initial: Mad River Pipeline Evaluation & Design (OLA, Sept 1999)

Most Recent: MRP Phase 6 Predesign Study (OLA, Oct 2015)

Comments

See Page 5-4

Prior Appropriations

See Page 5-4

Fiscal Impact

Total Cost of Construction: \$3,000,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$3,000 | | | | | \$3,000 |
| Expenditure Totals | \$3,000 | \$0 | \$0 | \$0 | \$0 | \$3,000 |
| Water Bonds | \$3,000 | | | | | \$3,000 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$3,000 | \$0 | \$0 | \$0 | \$0 | \$3,000 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



MAD RIVER WATER TRANSMISSION PIPELINE PROJECT (continued)

Category: *Water Supply*

Project Manager: *Jesse Willor, Brian Gerving*

COMMENTS

Construction of the Mad River Pipeline began in 2003. Permitting and design work preceeded construction.

Phase 1 - New Parallel Pipeline North & South of Indianola Road - **Completed 10/2003.**

Phase 2 - New Parallel Pipeline in Indianola Area - **Completed 10/2004.**

Phase 3 - New Relocated North Arcata Section - **Completed 10/2006.**

Phase 4.1 - Parallel Pipeline: South Arcata Section, 7th St. to Samoa Blvd. - **Completed 10/2013.**

Phase 4.2 - Parallel Pipeline: Ryan Slough to Frank Street - **Completed 10/2013.**

Phase 5 - Relocation: Myrtleowne, Frank Street to Harris & Hubbard Sts - **Completed 6/2014.**

| | Cost Estimate | Design | Construct |
|---|----------------------|---------------|------------------|
| Phase 6 - Relocation: Harris & Hubbard to Reservoir | \$ 3,500,000 | FY 2015-16 | FY 2016-17 |
| Phase 7 - Reconstruct the Ryan Slough Pump Station | unknown | un-programmed | un-programmed |
| TOTAL | \$ 3,500,000 | | |

PRIOR APPROPRIATIONS

| FY | DESCRIPTION | AMOUNT |
|-----------|---|---------------|
| 1998-99 | Pipeline Evaluation | \$ 450,000 |
| 2000-01 | Alternative Designs (Samoa Pipeline, Truesdale P.S.) | \$ 165,000 |
| 2001-02 | Environmental & Permitting | \$ 115,000 |
| 2002-03 | Valve Replacement Project - Design & Construction | \$ 155,000 |
| 2003-04 | Parallel Pipeline Design & Construction | \$ 4,290,000 |
| 2004-05 | Indianola Section Design & Construction | \$ 1,460,000 |
| 2005-06 | North Arcata Section Design & Construction | \$ 1,690,000 |
| 2006-07 | Ryan Slough Pump Station Electrical Improvements | \$ 65,000 |
| 2009-10 | South Arcata Section and Ryan Slough to Frank Street - Desigr | \$ 95,000 |
| 2011-12 | South Arcata Section and Ryan Slough to Frank Street - Permit | \$ 75,000 |
| 2012-13 | Phase 4 Construction / Phase 5 Design | \$ 2,160,000 |
| 2013-14 | Phase 5 Construction & Monitoring | \$ 1,589,000 |
| 2014-15 | Phase 6 Design | \$ 286,000 |

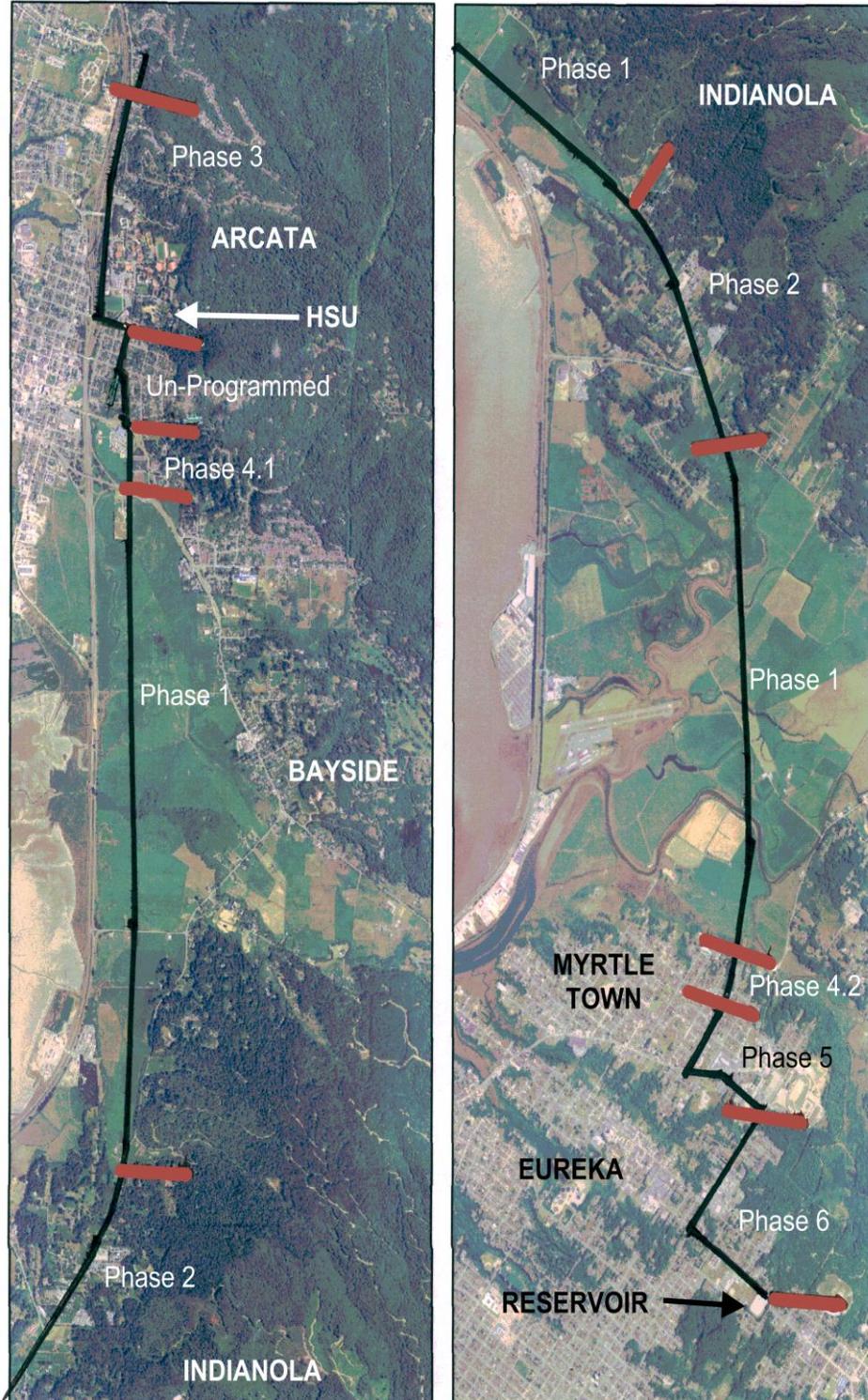


MAD RIVER WATER TRANSMISSION PIPELINE PROJECT (continued)

Category: *Water Supply*

Project Manager: *Jesse Willor, Brian Gerving*

Six Phases of Mad River Pipeline Rehabilitation



Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WATER DISTRIBUTION SYSTEM ANNUAL REPLACEMENT & MAINTENANCE PROGRAM

Category: *Water Supply*

Project Manager: *Jesse Willor*

Project Description

Replace or upgrade deteriorated, undersized, and aged mains, valves, and services

Project Location

City wide

Justification

Preventative maintenance to ensure the safety of the City's drinking water and the integrity of the water distribution system.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of proa financially sound City providing effective services.



New Gate Valve Assembly

Studies and Reports

Annual priority list compiled by Public Works and Fire Department

Comments

Prior Appropriations

| | | | |
|-----------|-------|-------------------------|-----------|
| FY '07-08 | # 442 | Water Improvements 2007 | \$140,000 |
| FY '09-10 | # 468 | Water Improvements 2009 | \$300,000 |
| FY '13-14 | # 484 | Water Improvements 2013 | \$520,000 |
| FY' 14-15 | #484 | Water Improvements 2015 | \$280,000 |

Fiscal Impact

See Page 5-7 for infrastructure cost list. Annual budget of \$500,00 (2016 dollars) plus 3% inflation per year.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|--------------|--------------|--------------|--------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$420 | \$515 | \$530 | \$545 | \$560 | \$2,570 |
| Expenditure Totals | \$420 | \$515 | \$530 | \$545 | \$560 | \$2,570 |
| Water Reserves | \$420 | \$515 | \$530 | \$545 | \$560 | \$2,570 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$420 | \$515 | \$530 | \$545 | \$560 | \$2,570 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WATER DISTRIBUTION SYSTEM ANNUAL REPLACEMENT & MAINTENANCE PROGRAM

Category: *Water Supply*

Project Manager: *Jesse Willor*

COMMENTS

Replace the following water Mains, Services and/or Valves:

| WATER MAINS & SERVICES | ESTIMATED | YEAR | GATE VALVE ASSEMBLIES | ESTIMATED | YEAR |
|--|-------------|---------|-----------------------------|-------------------|---------|
| | COST | PRGM'D | | COST | PRGM'D |
| 1. Buhne Street from S to P Streets | \$300,000 | 2019/20 | 1. Trinity & D | \$ 18,000 | 2015/16 |
| 2. Buhne Street from William to Fairfield | \$1,200,000 | future | 2. Trinity and F | \$ 18,000 | 2015/16 |
| 3. Bay St. - Improve Fire Flows | | | 3. 14th and K | \$ 18,000 | 2015/16 |
| a) Directional drill 12"-Bay St. to Jacobs | \$750,000 | future | 4. Henderson & Albee | \$ 22,000 | 2015/16 |
| b) Directional drill 12"-Bay to Bridge, west end | \$800,000 | future | 5. Henderson & Union | \$ 22,000 | 2015/16 |
| 4. Henderson St. - California to Fairfield | \$786,500 | future | 7. Carson & I | \$ 18,000 | 2016/17 |
| 5. Eastwood Dr. - replace w/ 6" & add hydrant | \$145,000 | future | 6. Buhne & I | \$ 22,000 | 2016/17 |
| 5. McFarlan St. - Myrtle to 18 th | \$600,000 | future | 8. H & 13 | \$ 18,000 | 2016/17 |
| 6. "S" St. - 4 th to Front | \$450,000 | future | 9. Watson & E | \$ 16,000 | 2017/18 |
| 7. Hill, Searles, Dowler mains & services | \$575,000 | future | 10. Henderson & William | \$ 22,000 | 2017/18 |
| 8. "N" St. - Bryant to Madrone | \$300,000 | future | 11. Seventh & K | \$ 16,000 | 2018/19 |
| 9. Watson St. - William to Lowell to Wabash | \$250,500 | future | 12. Third & K | \$ 16,000 | 2018/19 |
| 10. "F" St. - 5 th to 6 th | \$90,000 | future | 13. 14th and L | \$ 18,000 | 2019/20 |
| | | | 14. Hodgson & E | \$ 16,000 | 2019/20 |
| | | | 15. Add 16 isolation valves | \$ 240,000 | Ongoing |
| | | | TOTAL VALVES | \$ 500,000 | |
| | | | Additional Valves | \$ 225,000 | 2020/21 |
| | | | Additional Valves | \$ 240,000 | future |
| | | | Additional Valves | \$ 255,000 | future |

Note: a new list of valves will be generated each year.

*NOTE: TM5 from the 2007 Water Infrastructure Feasibility Study recommends isolation valves at critical facilities. See TM5 for location list.

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



RESERVOIR MAINTENANCE & SECURITY PROGRAM

Category: *Water Supply*

Project Manager: *Jesse Willor*

Project Description

Multi-phase project designed to upgrade mechanical, electrical and structural systems, and increase security at the City's 20 million gallon reservoir.

Project Location

Water Treatment Plant

Justification

To ensure security and extend the life of the City's water treatment and storage facilities.



20 MG Water Reservoir

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a financially sound City providing effective services.

Studies and Reports

2006 City of Eureka Water Vulnerability Assessment | Oscar Larson and Associates, August 2006

Reservoir Maintenance & Security Improvement Project Preliminary Design Report

Comments

The 20MG reservoir and operations building are among the City's essential assets. The Reservoir Maintenance and Security Program was created to modernize the facilities that were first constructed in the 1950's. The Phase 1 project, completed in 2006, replaced reservoir valves at a cost of roughly \$220,000. The Phase 2 project, completed in 2009, replaced the original water supply pumps, electrical service, and motor control center; repaired the maintenance road and berm around the reservoir; added security fences, gates, lighting, and alarm devices; and installed a backup generator at a cost of roughly \$1,200,000. The Phase 3 project consisted of recoating the west half of the reservoir roof structural members, and was completed in 2013. A condition assessment of the east side of the reservoir roof structure was prepared, and it was determined at that time to hold off on further action until a subsequent condition assessment. Actions will be determined after the subsequent condition assessment.

Prior Appropriations

| | | | |
|--------------|-----------|--------------|-----------|
| | | Project #394 | |
| FY 2005-2008 | \$376,741 | FY 2009-2010 | \$676,576 |
| FY 2008-2009 | \$772,239 | FY 2010-2013 | \$691,588 |

Fiscal Impact

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Water Reserves | | | | | | \$0 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



LUNDBAR HILLS BOOSTER PUMP STATION REHABILITATION

Category: *Water Supply*

Project Manager: *Jesse Willor*

Project Description

Replace water supply pumps and controls at Lundbar Hills subdivision.

Project Location

Lundbar Hills Pump Station

Justification

To improve the efficiency and reliability of the Lundbar Hills water storage and distribution pumping facility.



Lumbar Hills Pump Station

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a financially sound City providing effective services.

Studies and Reports

None

Comments

The Lundbar Hills reservoir and distribution facility, constructed in the early 1980's, is nearing the end of its useful service life. The pump station design requires that the pumps and motors operate continuously, which consumes electrical energy and causes excessive wear. The updated pump station will utilize modern pump and control technologies to increase efficiency and reduce the costs of providing safe, reliable water supply and fire protection to the citizens of Lundbar Hills.

Prior Appropriations

None

Fiscal Impact

Total Project Cost: \$250,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|--------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$50 | | | | | \$50 |
| Professional Services | | | | | | \$0 |
| Construction | | \$206 | | | | \$206 |
| Expenditure Totals | \$50 | \$206 | \$0 | \$0 | \$0 | \$256 |
| Water Reserves | \$50 | \$206 | | | | \$256 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$50 | \$206 | \$0 | \$0 | \$0 | \$256 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



HIGH TANK PUMP STATION REPLACEMENT

Category: *Water Supply*

Project Manager: *Jesse Willor*

Project Description

Replace high service water supply pumps and controls.

Project Location

Harris and K Streets

Justification

To ensure the security and reliability of the City's primary, high zone, water distribution facility.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of a financially sound City providing effective services.



Water Pumps at Harris and K Streets

Studies and Reports

Reservoir Maintenance and Security Improvements Project
Preliminary Design Report; OLA, August 2006

Comments

The elevated water storage tank located at Harris and K Streets maintains delivery pressure in the City's high pressure zone and Lundbar Hills. The pumps that draw from the low zone and fill the elevated tank were installed in the 1950's and have reached the end of their useful service life. The project will replace the existing pumps and controls, rehabilitate the structure that houses the pumps, and modify piping to bypass the elevated water storage tank, allowing for continued operation of the water distribution system whenever maintenance is being performed on the elevated tank.

Prior Appropriations

Prior appropriations were re-allocated to the Reservoir Maintenance and Security Program.
Remaining appropriations will be used for the pump replacements.

Fiscal Impact

Total Project Cost: \$380,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|----------|-----------|------------|----------|------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | 0 |
| Design | | | 66 | | | 66 |
| Professional Services | | | | | | 0 |
| Construction | | | | 360 | | 360 |
| Expenditure Totals | 0 | 0 | 66 | 360 | 0 | 426 |
| Water Reserves | | | 66 | 360 | | 426 |
| | | | | | | 0 |
| | | | | | | 0 |
| Funding Totals | 0 | 0 | 66 | 360 | 0 | 426 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



CORROSION CONTROL - WATER STORAGE TANKS

Category: *Water Supply*

Project Manager: *Jesse Willor*

Project Description

Design and installation cathodic protection for the elevated water storage tank, and upgrade the lower storage tank with a cathodic protection system.

Project Location

3030 L Street

Justification

To inhibit corrosion and maintain the structural integrity of the City's water storage tanks, thus maintaining existing infrastructure to reduce long term capital costs and provide reliable water service.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.



High Tank at Harris & K

Studies and Reports

Annual cathodic protection survey reports by Corpro Companies, Inc.-Waterworks Division

Comments

Cathodic protection (CP) is a technique used to limit corrosion of a metal surface by making that surface the cathode of an electrochemical cell. Anodes composed of a metal with a strong tendency to corrode, such as zinc or magnesium, are electrically connected to the structure to be protected. The anodes corrode more easily than the structure, consuming the anode material until eventually it must be replaced. CP systems on City water storage tanks are surveyed annually by corrosion control professionals and inspected regularly by Operations personnel.

Prior Appropriations

None

Fiscal Impact

Total Project Cost: \$75,000 (2016 dollars) plus 3% for inflation annually.

Annual O&M cost of approximately \$1,000 is expected to increase to approximately \$1,500 due to the addition of CP to the Elevated Tank.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|-------------|------------|------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$11 | | | | | \$11 |
| Professional Services | | | | | | \$0 |
| Construction | | \$66 | | | | \$66 |
| Expenditure Totals | \$11 | \$66 | \$0 | \$0 | \$0 | \$77 |
| Water Reserves | \$11 | \$66 | | | | \$77 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$11 | \$66 | \$0 | \$0 | \$0 | \$77 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WATER IMPROVEMENTS PROJECT 2016

Category: *Water Supply*

Project Manager: *Jesse Willor*

Project Description

Replace damaged water main, water services, and water valves at a variety of locations throughout the City.

Project Location

Buhne Street between Dean Street and Harrison Avenue

Justification

Replace water mains, valves, and service connections that have a history of problems identified by the Water Distribution Division of Public Works to ensure the safety and reliability of the City's Water Distribution System.

City Council Priority and Goals

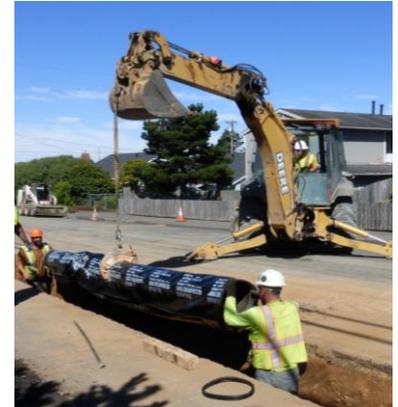
Meets Strategic Plan 2020 goal of a financially sound City providing effective services.

Studies and Reports

None

Comments

Several doctor's offices and other health service providers populate this stretch of Buhne Street. The Water Distribution Division of Public Works has had to repair this stretch of main four times in the past.



Water Main Installation



Gate Valve Assembly & Water Main

Prior Appropriations

FY 2014-2015: \$140,000

Fiscal Impact

Total Project Cost: \$420,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$420 | | | | | \$420 |
| Expenditure Totals | \$420 | \$0 | \$0 | \$0 | \$0 | \$420 |
| Water Reserves | \$420 | | | | | \$420 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$420 | \$0 | \$0 | \$0 | \$0 | \$420 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



CALIFORNIA REDWOOD COMPANY WATER & WASTEWATER CONNECTION

Category: *Water Supply / Wastewater*

Project Manager: *Brian Gerving*

Project Description

The City is pursuing annexation of the California Redwood Company (CRC) property. If this happens, the City may eventually extend utilities to the CRC property.

Project Location

Avenue and Mid City Motor World Driveway.

Justification

The CRC property is a developed industrial site with direct Highway 101 access that could prove to be a useful resource under the City's jurisdiction.



CRC Property

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a financially sound City providing effective services and business investment, business growth, and quality jobs.

Studies and Reports

None

Comments

Project includes both water and wastewater infrastructure. The project is listed in the Wastewater section of the CIP as well.

Prior Appropriations

None

Fiscal Impact

Total project cost: \$2,200,000 (2016 dollars) plus 3% for inflation annually. 60% of the total project cost (\$1,314,000) will be for water supply. Preliminary Design and Preliminary Environmental is projected to be \$90,000 for the water portion of the project.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|---------------------------|------------------------|------------|------------|------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$90 | | | | | \$90 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$90 | \$0 | \$0 | \$0 | \$0 | \$90 |
| Water Revenue | \$90 | | | | | \$90 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$90 | \$0 | \$0 | \$0 | \$0 | \$90 |

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Martin Slough Interceptor Phase 1 Construction

WASTEWATER

**Capital Improvement Program 2016/17
FIVE YEAR SUMMARY**



WASTEWATER

| Page # | Project Name | (Thousands of Dollars) | | | | | |
|--------------|--|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | Total Project Cost | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| | | 2016 Dollars | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 |
| PG. 6-3 | WASTEWATER INFLOW & INFILTRATION REDUCTION PROGRAM | \$ 5,000 | \$ 1,000 | \$ 1,030 | \$ 1,070 | \$ 1,110 | \$ 1,140 |
| PG. 6-4 | WASTEWATER COLLECTION SYSTEM MAINTENANCE | \$ 2,500 | \$ 500 | \$ 516 | \$ 530 | \$ 546 | \$ 560 |
| PG. 6-5 | WASTEWATER LIFT STATION UPGRADE PROGRAM | \$ 935 | \$ 35 | \$ 206 | \$ 265 | \$ 273 | \$ 224 |
| PG 6-6 | CROSS TOWN INTERCEPTOR MAINTENANCE | \$ 260 | \$ - | \$ 83 | \$ 191 | \$ - | \$ - |
| PG 6-7 | TRICKLING FILTER PUMPS WWTP | \$ 200 | \$ - | \$ - | \$ - | \$ - | \$ - |
| PG 6-8 | INFLUENT BYPASS CHANNEL MODIFICATIONS | \$ 155 | \$ 155 | \$ - | \$ - | \$ - | \$ - |
| PG 6-9 | WATER PUMPS WWTP | \$ 60 | \$ 30 | \$ - | \$ - | \$ - | \$ 34 |
| PG 6-10 | WWTP COMBINED HEAT & POWER REPLACEMENT PROJECT | \$ 1,400 | \$ 1,400 | \$ - | \$ - | \$ - | \$ - |
| PG 6-11 | MOTOR CONTROL CENTER REPLACEMENT PROJECT | \$ 775 | \$ 775 | \$ - | \$ - | \$ - | \$ - |
| PG 6-12 | WWTP BIOSOLIDS STORAGE FACILITY | \$ 500 | \$ 100 | \$ 103 | \$ 106 | \$ 109 | \$ 112 |
| PG 6-13 | WWTP DIGESTER DOMES & STAIR RAILING REPLACEMENT | \$ 1,500 | \$ 1,500 | \$ - | \$ - | \$ - | \$ - |
| PG 6-14 | PRIMARY CLARIFIER EQUIPMENT | \$ 1,000 | \$ - | \$ 1,030 | \$ - | \$ - | \$ - |
| PG 6-15 | WWTP OVERFLOW MARSH VEGETATION REMOVAL | \$ 300 | \$ 50 | \$ 260 | \$ - | \$ - | \$ - |
| PG 6-16 | GRIT CLASSIFIER WWTP | \$ 80 | \$ - | \$ - | \$ - | \$ 80 | \$ - |
| PG 6-17 | CALIFORNIA REDWOOD COMPANY WW CONNECTION | \$ 876 | \$ 60 | \$ - | \$ - | \$ - | \$ - |
| TOTAL | | \$ 15,541 | \$ 5,605 | \$ 3,228 | \$ 2,162 | \$ 2,118 | \$ 2,070 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



WASTEWATER INFLOW AND INFILTRATION REDUCTION PROGRAM

Category: *Wastewater*

Project Manager: *Gabe Adame*

Project Description

A multi-phased, multi-year program for reducing Rainfall Derived Inflow and Infiltration (RDII) into the wastewater collection system by implementing capital improvement projects in accordance with program recommendations based on field tests, observations & analysis.



Sewer Main Pipe Lining

Project Location

City Wide

Justification

In conformance with the City's NPDES permit issued by the California Regional Water Quality Control Board (RWQCB), the City is required to reduce the amount of inflow and infiltration (I/I) that enters the City's wastewater system. A comprehensive program that consists of testing, correction work and documentation is in place as the most effective means of accomplishing meaningful I/I reduction and addressing wet weather peak flows at the Elk River WWTP.

City Council Priority and Goals

Meets Strategic Plan 2020 goals of supporting a financially sound city providing effective services and is listed as a High Priority Project in the Strategic Plan.

Studies and Reports

- 1980 Infiltration/Inflow Study (Oscar Larson and Assoc.)
- 1984 Infiltration/Inflow Correction for the Greater Eureka Area Wastewater Project
- 2003/04 Flow Monitoring Study (SHN Consulting Engineers & Geologists)
- 2008 Wastewater Facilities Plan Phase 1 (Brown and Caldwell)
- 2014 Feasibility Analysis for Treating Peak Wet Weather Discharges (Brown and Caldwell)

Comments

City is currently updating its Sewer Lateral Ordinance with the goal being to replace/repair deteriorated laterals and inappropriate connections.

Prior Appropriations

Not Available

Fiscal Impact

Total Project Cost: \$1,000,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$90 | \$103 | \$107 | \$111 | \$114 | \$525 |
| Professional Services | | | | | | \$0 |
| Construction | \$910 | \$927 | \$963 | \$999 | \$1,026 | \$4,825 |
| Expenditure Totals | \$1,000 | \$1,030 | \$1,070 | \$1,110 | \$1,140 | \$5,350 |
| Wastewater Enterprise Reserves Funds | \$1,000 | \$1,030 | \$1,070 | \$1,110 | \$1,140 | \$5,350 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$1,000 | \$1,030 | \$1,070 | \$1,110 | \$1,140 | \$5,350 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



WASTEWATER COLLECTION SYSTEM REPLACEMENT AND MAINTENANCE

Category: *Wastewater*

Project Manager: *Jesse Willor*

Project Description

Replace deteriorated and aged sanitary sewer mains in various locations within City.

Project Location

City Wide

Justification

To reduce maintenance requirements, I/I, and potential for structural failure.

City Council Priority and Goals

Meets Strategic Plan 2020 goals of supporting a financially sound city providing effective services and is listed as a High Priority Project in the Strategic Plan.

Studies and Reports

Operational inspection and/or reports of problems

Comments

Prior Appropriations

Not Available

Fiscal Impact

Budget \$500,000 (2016 dollars) plus 3% for inflation per year for improvements.



Sewer Main Maintenance

| MAINS AND LATERALS | EST. COST | YEAR PRGM'D | MANHOLES | EST. COST | YEAR PRGM'D |
|--|-----------|-------------|--|-----------|------------------|
| 1a. 15" 2nd & K to Snug Alley | See 6-3 | 2015/16 | 1. I St btwn 14th & 15th | \$6,000 | 2017/19 |
| 1b. Snug Alley, 8" from G to I | See 6-3 | 2015/16 | 2. Harris btwn J & K | \$11,000 | 2017/19 |
| 2. Opera Alley, 8" from C to E | See 6-3 | 2015/16 | 3. Hodgson btwn F & G | \$6,000 | 2017/19 |
| 3. 6" Harris & B to Lowell (Gulch) | \$350,000 | 2016/17 | 4. Duck @ O St. gulch wye | \$6,000 | 2017/19 |
| 4. Garland, 6" Buhne 500' north | \$125,000 | 2017/18 | 5. Randolph @ Lowell gulch wye | \$6,000 | 2017/19 |
| 5. Union , 14" from Church to 15th | \$55,000 | 2017/18 | 6. Carson & Summit | \$6,000 | 2017/19 |
| 6. Waterfront Dr., 8" from J to G | See 6-3 | 2015/18 | | | |
| 7. 18th & Sunny, 8" line to East Av plus 8" gulch line 400' southerly | \$150,000 | 2016/17 | TOTAL MANHOLES | | 2017/19 |
| 8. Gulch Line, P to Hemlock | \$315,000 | 2017/18 | | | |
| 9. Albee, 8" from Highland to Andrew | \$285,000 | 2018/19 | Additional Manholes | | \$45,000 2017/18 |
| | \$75,000 | 2018/19 | | | \$45,000 2018/19 |
| 10. Searles, 6" West Ave to 300' E | \$75,000 | 2018/19 | Note: A new list of manholes is generated each year. | | |

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|--------------|--------------|--------------|--------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$50 | \$52 | \$53 | \$55 | \$56 | \$266 |
| Professional Services | | | | | | \$0 |
| Construction | \$450 | \$464 | \$477 | \$491 | \$504 | \$2,386 |
| Expenditure Totals | \$500 | \$516 | \$530 | \$546 | \$560 | \$2,652 |
| Wastewater Enterprise Reserves Funds | \$500 | \$516 | \$530 | \$546 | \$560 | \$2,652 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$500 | \$516 | \$530 | \$546 | \$560 | \$2,652 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WASTEWATER LIFT STATION UPGRADE PROGRAM

Category: *Wastewater*

Project Manager: *Jesse Willor*

Project Description

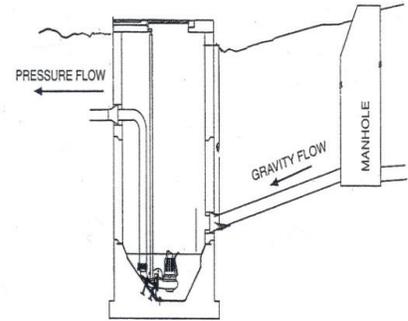
Repair, upgrade, or replace wastewater lift stations and/or components as they age and become outdated and ineffective.

Project Location

City Wide

Justification

To maintain integrity of the City's wastewater conveyance facilities.



City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Sewer Lift Station

Studies and Reports

Not Available

Comments

Prior Appropriations

FY 2014-2015 PN #555 Hilfiker LS \$415,000

Fiscal Impact

Total project cost varies by prioritization of lift station improvements. (2016 dollars plus 3% for inflation annually)

| PRIORITY | NAME | DESCRIPTION | COST (2016 Dollars) | YEAR PRGM'D |
|----------|---------------------------|---|------------------------|----------------|
| 1 | 3rd & Y L.S. | Add Emergency Backup Generator | \$35,000 | 2016/17 |
| 2 | Del Norte & Broadway L.S. | Convert to submersible pumps & VFD's | \$200,000 | 2017/18 |
| 3 | Waterfront Drive L.S. | Convert to submersibles and backup gen. | \$250,000 | 2018/19 |
| 4 | Manzanita & K L.S. | Replace lift station & Controls | \$250,000 | 2019/20 |
| 5 | Lowell St. L.S. | Re-direct flows to Martin Slough 2.0 Line | \$200,000 | 2019/20 |

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|--------------|--------------|--------------|--------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$5 | \$21 | \$27 | \$28 | \$22 | \$103 |
| Professional Services | | | | | | \$0 |
| Construction | \$30 | \$185 | \$238 | \$245 | \$202 | \$900 |
| Expenditure Totals | \$35 | \$206 | \$265 | \$273 | \$224 | \$1,003 |
| Wastewater Enterprise Reserves Funds | \$35 | \$206 | \$265 | \$273 | \$224 | \$1,003 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$35 | \$206 | \$265 | \$273 | \$224 | \$1,003 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



CROSS TOWN INTERCEPTOR MAINTENANCE

Category: *Wastewater*

Project Manager: *Jesse Willor*

Project Description

Evaluate condition of existing infrastructure and act to maintain corrosion control system as needed.

Project Location

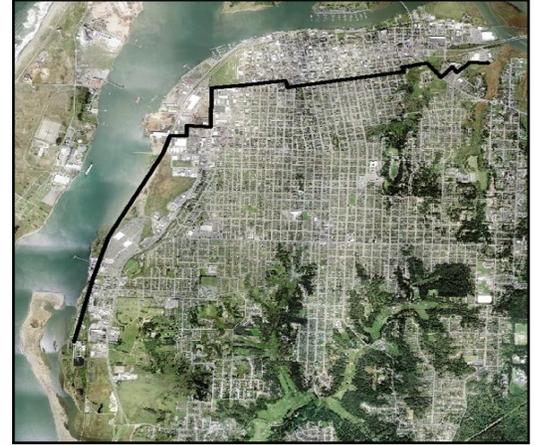
See Image of Interceptor Route

Justification

Maintain structural integrity of City's wastewater transmission main, the Cross Town Interceptor.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.



Cross Town Interceptor Route

Studies and Reports

Survey reports by Corpro Companies, Inc.
Condition Assessment by GHD, Sept. 2012
Preliminary Risk Assessment by GHD, Sept. 2012

Comments

Past cathodic protection survey reports contain the following recommendations:

1. Restore electrical continuity on the pipeline between Del Norte and Truesdale Streets.
2. Re-establish baseline survey data.
3. Replace deep-well anode bed on Railroad Avenue, north of Del Norte Street.
4. Perform annual cathodic protection survey.

Prior Appropriations

| | | | |
|--------------|----|--------|--------------|
| FY 2006-2007 | \$ | 52,000 | Project #371 |
| FY 2006-2007 | \$ | 63,403 | Project #433 |
| FY 2008-2009 | \$ | 17,275 | Project #433 |
| FY 2011-2012 | \$ | 85,000 | Project #433 |

Fiscal Impact

Total estimated project cost: \$260,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|-------------|--------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | \$83 | | | | \$83 |
| Professional Services | | | | | | \$0 |
| Construction | | | \$191 | | | \$191 |
| Expenditure Totals | \$0 | \$83 | \$191 | \$0 | \$0 | \$274 |
| Wastewater Enterprise Reserves Funds | | \$83 | \$191 | | | \$274 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$83 | \$191 | \$0 | \$0 | \$274 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



TRICKLING FILTER PUMPS WWTP

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Replace 2 trickling filter pumps at the Elk River Wastewater Treatment Plant

Project Location

Elk River WWTP

Justification

Trickling filter pumps are over 30 years old and pumping well below their design capacity of 6 million gallons per day.



Trickling Filter Pumps

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

None

Comments

These pump upgrades will allow increased pumping to the secondary treatment process, thereby reducing incidences of bypassing.

Prior Appropriations

Not Available

Fiscal Impact

Total Project Cost: \$200,000 (2016 dollars) plus 3% for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$200 | | | | | \$200 |
| Expenditure Totals | \$200 | \$0 | \$0 | \$0 | \$0 | \$200 |
| Wastewater Enterprise Reserves Funds | \$200 | | | | | \$200 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$200 | \$0 | \$0 | \$0 | \$0 | \$200 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



INFLUENT BYPASS CHANNEL MODIFICATIONS

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Installation of controlled overflow mechanism and flow monitoring; Modifications to minimize overflow events.

Project Location

Elk River WWTP

Justification

The Wastewater Facilities Plan analysis completed between 2009 and 2014 identifies modifications to the overflow bypass channel to control overflow events, including a modulating weir gate to better monitor control overflow events and mointor flow.



Elk River WWTP

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

FY 2009-2014 Wastewater Facility Plan Phase 3

Comments

Wet weather flows often exceed secondary treatment capacity and must be bypassed with primary treatment and disinfection only prior to discharge. WWTP effluent quality is not significantly affected by this infrequent bypass operation. The proposed modifications will minimize the occurrence of bypass and allow accurate flow monitoring when bypass occurs.

Prior Appropriations

None

Fiscal Impact

Total Project Cost: \$155,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$25 | | | | | \$25 |
| Professional Services | | | | | | \$0 |
| Construction | \$130 | | | | | \$130 |
| Expenditure Totals | \$155 | \$0 | \$0 | \$0 | \$0 | \$155 |
| Wastewater Enterprise Reserves Funds | \$155 | | | | | \$155 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$155 | \$0 | \$0 | \$0 | \$0 | \$155 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WATER PUMPS WWTP

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Replace two water pumps at the Elk River Wastewater Treatment plant.

Project Location

Elk River WWTP

Justification

Two of three water pumps are over 30 years old and no longer pump at their design capacity. They cannot be rebuilt due to age and condition.



Water Pumps at WWTP

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

None

Comments

These pumps supply reclaimed water to critical plant functions such as cooling water, seal water, and wash-down water.

Prior Appropriations

Not Available

Fiscal Impact

Total Project Cost: \$60,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|------------|-------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$30 | | | | \$34 | \$64 |
| Expenditure Totals | \$30 | \$0 | \$0 | \$0 | \$34 | \$64 |
| Wastewater Enterprise Reserves Funds | \$30 | | | | \$34 | \$64 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$30 | \$0 | \$0 | \$0 | \$34 | \$64 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



WWTP COMBINED HEAT AND POWER (CHP) REPLACEMENT PROJECT

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Replace and upsize existing co-generation engines with one modern and energy-efficient unit and backup boiler.

Project Location

Elk River WWTP

Justification

The two existing co-generation (CHP) are over 25 years old and nearing the end of their useful service life. Spare parts are becoming extremely scarce and available parts are excessively expensive.



WWTP Cogeneration Room

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

Ongoing Analysis/Basis of Design by Greenway Partners

Comments

These engines are designed to burn digester gas and produce both electricity and hot water. The hot water is mainly used to heat and maintain a digester temperature typically around 98°-99°F. It also is used to heat the main administration building. The electricity produced is used to offset the power purchased from PG&E. These newer and more efficient engines are designed to produce more electricity per cubic foot of digester gas produced. The engines are a critical part of the overall plant operation.

A component of this project is a potential \$300,000 Self grant that pays half of the money upon project completion and half after five years of operation. The projected yearly cost savings of installing the new engine has been estimated at \$90,000 per year.

Prior Appropriations

\$7,000 Contract with Greenway for Feasibility Study

Fiscal Impact

Total cost estimated to be \$1,400,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|----------------|------------|------------|------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$50 | | | | | \$50 |
| Professional Services | | | | | | \$0 |
| Construction | | \$1,350 | | | | \$1,350 |
| Expenditure Totals | \$50 | \$1,350 | \$0 | \$0 | \$0 | \$1,400 |
| Wastewater Enterprise Reserves Funds | \$50 | \$1,200 | | | | \$1,250 |
| Performance Grant | | \$150 | | | | \$150 |
| | | | | | | \$0 |
| Funding Totals | \$50 | \$1,350 | \$0 | \$0 | \$0 | \$1,400 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



MOTOR CONTROL CENTER (MCC) REPLACEMENT PROJECT

Category: *Wastewater*

Project Manager: *Brian Gerving, Dan Duncan*

Project Description

Replace existing motor control centers at the Wastewater Treatment Plant and three pump stations.

Project Location

Elk River WWTP

Justification

The existing MCC's are over 25 years old and are nearing the end of their useful service life. Repair parts for these obsolete units are increasingly harder to find.



MCC Room

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

Energy Consumption Review

Comments

The motor control centers can be called the "heart" of the operations due to the fact that they control the functioning of all the electrical equipment at the treatment plant and pumping stations. Typical design life for these units is normally estimated at 20-25 years. Although they have served the City admirably over time, their reliability is decreasing. These essential components are critical to the overall wastewater treatment operations at the Elk River Wastewater Treatment Plant and the three major pumping stations: McCullens Avenue, Washington Street, and Hill Street.

Prior Appropriations

\$25,000 For Design

Fiscal Impact

Total Project Cost: \$775,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$775 | | | | | \$775 |
| Expenditure Totals | \$775 | \$0 | \$0 | \$0 | \$0 | \$775 |
| Wastewater Enterprise Reserves Funds | \$775 | | | | | \$775 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$775 | \$0 | \$0 | \$0 | \$0 | \$775 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WWTP BIOSOLIDS STORAGE FACILITY

Category: *Wastewater*

Project Manager: *Brian Gerving, Dan Duncan, Jesse Willor*

Project Description

Permitting and Implementation of Biosolids Storage for dewatered biosolids.

Project Location

Elk River WWTP

Justification

Existing sludge lagoons are full and added storage capacity is needed for operations.



Facultative Sludge Lagoons

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

Investigation of Dredging and Loading Equipment, along with Biosolids Disposal Options including Land Application and Drying/Composting: COE Biosolids Disposal; Greenway Partners, September 2015

Comments

The City has recently purchased and installed new dredge equipment as well as a new biosolids centrifuge for the dewatering program. The City now needs more storage capacity for the dewatered biosolids.

Prior Appropriations

None

Fiscal Impact

Total Cost: Unknown. Set aside \$100,000 plus 3% for inflation per year to dispose of biosolids or towards a storage facility.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | \$100 | \$103 | \$106 | \$109 | \$112 | \$530 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$100 | \$103 | \$106 | \$109 | \$112 | \$530 |
| Wastewater Enterprise Reserves Funds | \$100 | \$103 | \$106 | \$109 | \$112 | \$530 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$100 | \$103 | \$106 | \$109 | \$112 | \$530 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WWTP DIGESTER COVER REPAIR PROJECT

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Remove, inspect, sand blast, repair, and paint existing digester floating domes. Repair/replace digester stair and top railing systems.

Project Location

Elk River WWTP

Justification

The existing domes and railings were installed as part of the original plant constructed in the mid 1980's. Proximity to Humboldt Bay and exposure to sulfuric compounds and warm, moist gases create harsh conditions for both the internal and external surfaces. The domes and the railings have been affected.



Roof of Digester

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

A prior study was conducted to check the condition of the existing metal and structural integrity. Engineering evaluation of the railings is also completed.

Comments

The dome is an essential component to an anaerobic digester system. It collects and conveys digester gas to cogeneration engines and is integral to the mixing system. The structure includes top and bottom surfaces, with a crawl space in between, which is showing the most significant corrosion and rust-scaling. This project will also provide an opportunity to perform the Digester Mixing Upgrade Evaluation recommended in the Wastewater Facilities Plan. Safe stairway access is mandatory.

Prior Appropriations

None

Fiscal Impact

Total project cost estimated to be \$1,500,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|------------|------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$1,500 | | | | | \$1,500 |
| Expenditure Totals | \$1,500 | \$0 | \$0 | \$0 | \$0 | \$1,500 |
| Wastewater Enterprise Reserves Funds | \$1,500 | | | | | \$1,500 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$1,500 | \$0 | \$0 | \$0 | \$0 | \$1,500 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



PRIMARY CLARIFIER EQUIPMENT

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Replacement of aging and deteriorating Primary Clarifier components.

Project Location

Elk River WWTP

Justification

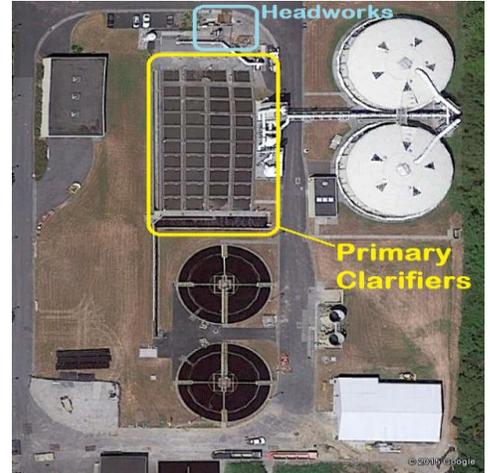
Primary clarifier equipment is deteriorating and needs replacement for required duty.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

FY 2009-2014 Wastewater Facility Plan Phase 3



Elk River WWTP

Comments

Prior Appropriations

None

Fiscal Impact

Total Project Cost: \$1,000,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|------------|------------|----------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | \$90 | | | | | \$90 |
| Professional Services | | | | | | \$0 |
| Construction | \$910 | | | | | \$910 |
| Expenditure Totals | \$1,000 | \$0 | \$0 | \$0 | \$0 | \$1,000 |
| Wastewater Enterprise Reserves Funds | \$1,000 | | | | | \$1,000 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$1,000 | \$0 | \$0 | \$0 | \$0 | \$1,000 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



WWTP OVERFLOW MARSH VEGETATION REMOVAL PROJECT

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Remove and dispose of vegetative plant growth clogging and overgrowing the overflow marsh. Area to be cleaned is approximately 38 acres. Verify functionality of inlet/outlet structures.



Project Location

Elk River WWTP

Justification

Needed to restore storage capacity necessary during winter storms and reduced discharge window.

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Overflow Marsh Overgrowth

Studies and Reports

Wastewater Facilities Plan, Brown and Caldwell

Comments

The overflow marsh is a component of the facility used during the winter months to store excess treated wastewater received during periods of high flows. Stored wastewater is discharged after mixing with effluent held in the effluent holding pond. Over a period of time the marsh has become clogged with trees, brush, and other vegetative matter. This project would restore the hydraulic storage capacity in this segment of the wastewater treatment plant. In addition this project should help increase effluent quality by reducing BOD and TSS sent back through the plant as final effluent.

Prior Appropriations

None

Fiscal Impact

Total Project Cost: \$300,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|--------------|------------|------------|------------|--------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | \$50 | \$260 | | | | \$310 |
| Expenditure Totals | \$50 | \$260 | \$0 | \$0 | \$0 | \$310 |
| Wastewater Enterprise Reserves Funds | \$50 | \$260 | | | | \$310 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$50 | \$260 | \$0 | \$0 | \$0 | \$310 |

Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT



GRIT CLASSIFIER WWTP

Category: *Wastewater*

Project Manager: *Dan Duncan*

Project Description

Replace grit classifier at Elk River Wastewater Treatment Plant.

Project Location

Elk River WWTP

Justification

The existing classifier at the plant has lost most of its efficiency due to moving parts being worn beyond repair.



Grit Classifier at WWTP

City Council Priority and Goals

Meets Strategic Plan 2020 goal of supporting a financially sound city providing effective services.

Studies and Reports

None

Comments

The efficient removal of grit is essential for maintaining downstream equipment and processes.

Prior Appropriations

None

Fiscal Impact

Estimated Cost: \$80,000 (2016 dollars) plus 3%[^] for inflation annually.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|-------------|------------|-------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | | \$80 | | \$80 |
| Expenditure Totals | \$0 | \$0 | \$0 | \$80 | \$0 | \$80 |
| Wastewater Enterprise Reserves Funds | | | | | | \$0 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

**Capital Improvement Program 2016/17
PROJECT DESCRIPTION/STATUS REPORT**



CALIFORNIA REDWOOD COMPANY WATER & WASTEWATER CONNECTION

Category: *Wastewater*

Project Manager: *Brian Gerving*

Project Description

The City is pursuing annexation of the California Redwood Company (CRC) property. If this happens, the City may eventually extend utilities to the CRC property.

Project Location

West of Hwy 101 Safety Corridor, between Jacobs Avenue and Mid City Motor World Driveway.



CRC Property

Justification

The CRC property is a developed industrial site with direct Highway 101 access that could prove to be a useful resource under the City's jurisdiction.

City Council Priority and Goals

Meets Strategic Plan 2020 goals of a financially sound City providing effective services, business investment, business growth, and quality jobs.

Studies and Reports

None

Comments

Project includes both water and wastewater infrastructure. The project is listed in the Water Supply section of the CIP as well.

Prior Appropriations

None

Fiscal Impact

Total project cost: \$2,200,000 (2016 dollars) plus 3%[^] for inflation annually. 60% of the total cost (\$1,320,000) is expected to be for water supply.

| EXPENDITURE CATEGORY | (Thousands of Dollars) | | | | | Five Year |
|--------------------------------------|------------------------|------------|------------|------------|------------|------------|
| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | |
| Right-of-Way | | | | | | \$0 |
| Design | | | | | | \$0 |
| Professional Services | | | | | | \$0 |
| Construction | | | | | | \$0 |
| Expenditure Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Wastewater Enterprise Reserves Funds | | | | | | \$0 |
| | | | | | | \$0 |
| | | | | | | \$0 |
| Funding Totals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

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LONG TERM PROJECTS

Long Term Projects are not currently budgeted for the next five years unless funding becomes available or the project becomes an urgent priority.

Parks & Recreation

Old Town Square & Gazebo Reconstruction

Reconstruct the Old Town Square and Gazebo to enhance usability and create a town center.

Land & Facilities

Eureka Municipal Airport Improvements

Construct improvements such as runway lights, resurfacing, new hangars, and security fencing at airport.

First Street Parking, Bayfront Parking

Provide additional parking, pedestrian access area, and open space and recreational area in Old Town.

Myrtle Grove Cemetary Project

Raise and level grave markers at Myrtle Grove Cemetary. Pave gravel drives through property.

Fire/EOC Facility

Demolition and construction of a new Fire, Emergency Operations and CPR Training Center.

Firestation #3 Replacement

Purchase land in preparation for the future relocation and replacement of Fire Station #3 at 2905 Ocean.

Firestation #4 Replacement

Replacement of Fire Station #4 located at 1016 Myrtle Avenue.

Firestation 6 Museum

Provide structural repairs to the foundation, apply new paint, and continue maintenance to Museum.

Joint Fire Training Facility Paving

Pave Hilfiker training facility from north entry gate to south edge of tower pad, approximately 300' X 600'.

Joint Fire Training Facility Classroom

Construct a classroom/mixed use building on City-owned property at the foot of Hilfiker Street.

Streets & Storm Drains

Harrison Avenue Congestion Improvements

Increase roadway capacity with coordination from Humboldt County.

North Eureka Gateway Improvements

Construction of gateway improvements along 4th and 5th Streets (US 101) from V Street to Airport Road.

Traffic Signal Upgrades

Upgrades to traffic signal controls and replacement of overhead traffic signal poles.